u3600-1-12-

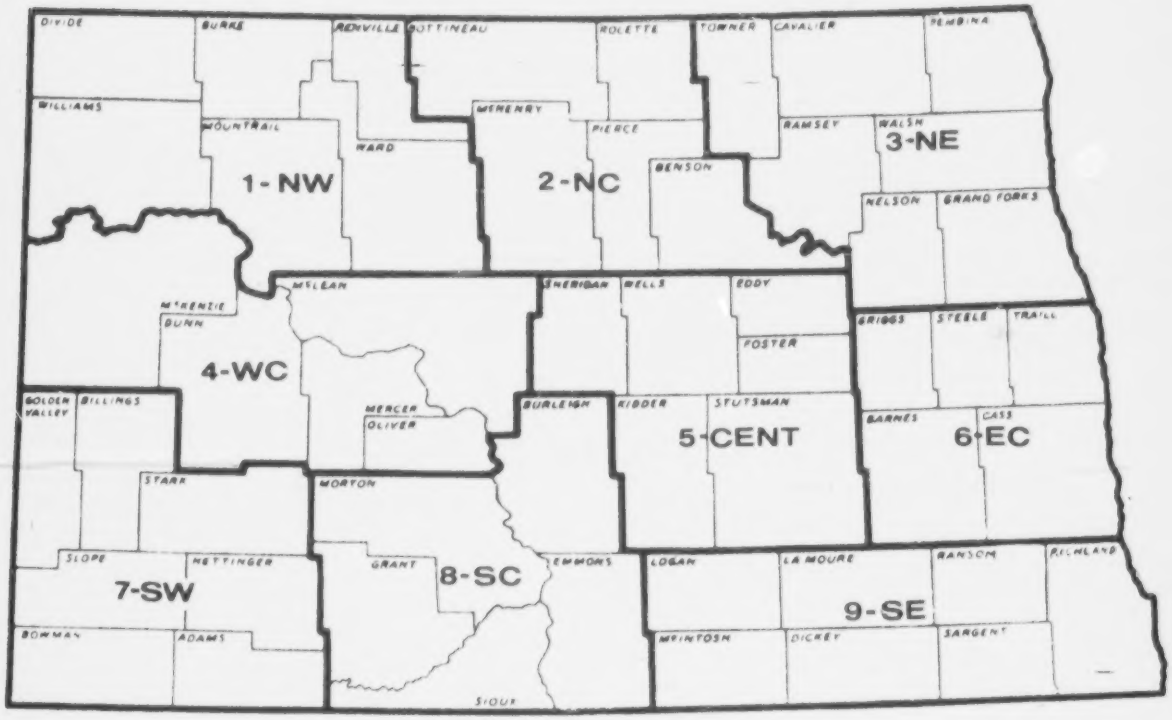
NORTH DAKOTA AGRICULTURAL STATISTICS

CENTENNIAL ISSUE

Ag Statistics No. 58
June 1989

NORTH DAKOTA

AGRICULTURAL STATISTICS DISTRICTS



NORTH DAKOTA AGRICULTURAL STATISTICS

CENTENNIAL ISSUE

Compiled by

NORTH DAKOTA AGRICULTURAL STATISTICS SERVICE

345 U.S. Post Office - Federal Building
P.O. Box 3166 Fargo, ND 58108

Steven D. Wiyatt - State Statistician
William G. Hamlin - Deputy State Statistician

OFFICE STAFF

CROPS
Earl Stabenow
Mike Bernhardt
Peter Welte
Diane Sternitzky

DATA PROCESSING
Renee Steen
Beth Meyer

LIST SAMPLING FRAME & SPECIAL SURVEYS
Mike Spurgin
Gloria Melo

LIVESTOCK
Dan Ledbury
Bill Sigrist
Brenda Cochran
Jean Coveney

ADMINISTRATIVE
Kathy Prashek
Janice Kjesbo
Sara Sorenson
Kari Hanson

Issued cooperatively by

NORTH DAKOTA STATE UNIVERSITY
H. Roald Lund, Director
Agricultural Experiment Station

William Pietsch, Director
NDSU Extension Service

U.S. DEPARTMENT OF AGRICULTURE
Clayton Yeutter,
Secretary of Agriculture

Charles E. Caudill, Administrator
National Agricultural Statistics Service

PRICE: $6.00

CONTENTS

	STATE DATA	COUNTY DATA
	Page	Page
Contents	2, 3	
Comments	4, 5	
North Dakota Centennial Section	6-8	
INTRODUCTORY STATISTICS	9-26	
North Dakota's National Rank	10, 11	
Rank of Counties		12
Income	13, 14	
Assets & Debt	15	
Number of Farms, Size and Land Area	16	
Land Value & Rent	16	17-18
Planting and Harvesting Progress, 1988	19, 20	
Growing Season	21, 22	
Weather	23-26	
CROPS	27-84	
Summary	28-29	
Historic Acreage, Production, Price & Value	30-33	
Historic Stocks of Grain	34-35	
Potatoes	36	
Varieties: Barley and Wheat	37-38	
Individual Commodity Statistics		
Barley	30, 34, 38	55-60, 80-81
Corn	32, 35, 79	73-74, 82
Dry Beans	31, 79	77
by Commercial Classes, Historic	77	
Flaxseed	31, 35	69-71
Hay, Alfalfa	33	75-76
Other	33	75-76
All	33, 35	75-76
Millet	32	
Mustard	33	
Oats	30, 34	66-68
Potatoes	31, 36, 79	78
Rye	31, 35	72
Soybeans	31, 35, 79	78
Sugarbeets	31, 79	78
Sunflower, Oil & Non-Oil	32	64-65
All	32, 35	61-63
Wheat, Durum	30, 34, 37	49-53, 55
Spring Wheat Other than Durum	30, 37	44-48, 55
Winter	30, 38	54
All	30, 34	39-43, 55
Irrigation	54	80-81
Principal Crops, Total	33	
Irrigation: Wheat, Barley, Corn		80-82
Storage Capacity	35	
Summer Fallow	33	55
Farm Marketings, Percent Sold by Month	83	

CONTENTS CONTINUED

	STATE DATA Page	COUNTY DATA Page
LIVESTOCK, DAIRY, POULTRY	85-94	
Summary	86	
Number of Livestock Farms	86	
Cattle and Calves	86, 87, 92, 94	
Dairy	88, 92	
Hogs	86, 89, 93, 94	
Sheep	86, 90, 93	
Poultry and Honey	86, 91	
Slaughter	86	
PRICES	95-100	
Summary	96	
Indexes	96	
Field Crops	97, 98, 99	
Livestock	98	
MISCELLANEOUS	101-117	
Fertilizer Consumption and Use	102	
Value of Export Shares	102	
Grain Shipments		103-108
Custom Rates	109	
NASS Chronology	110	
Where to Find Historic Estimates	117	
Order Forms - Agricultural Statistics Reports		
National NASS Reports	111-112	
North Dakota NASS Reports	113-114	
ND Agricultural Statistics Annual Bulletin	115-116	

PHOTO CREDITS

COVER: Fred Hultstrand "History in Pictures" Collection, NDSU, Fargo, Bakken Sod House

North Dakota Extension Service, Color Photo

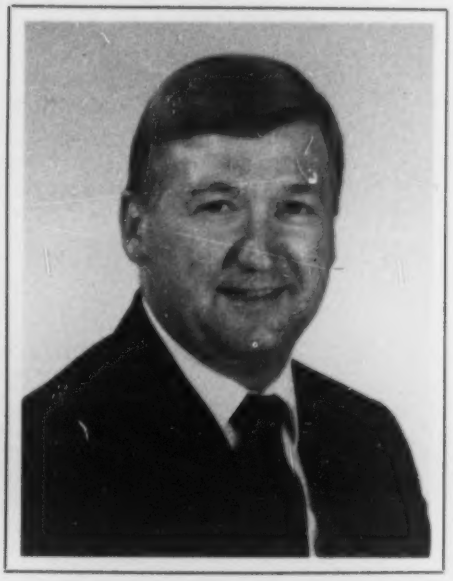
INSIDE: North Dakota Agricultural Statistics Personnel, Present Day Photos

Divider Pages (Top Photos)
- "Haynes Collection", N.D. Institute for Regional Studies, NDSU Library, Old Capitol Bismarck, Page 9

- Fred Hultstrand "History in Pictures" Collection, NDSU, Fargo:
  . George Spangler Threshing Rig, Inkster, Page 27
  . Sod Barn, Walsh County, Page 85
  . Fourth of July Celebration, Milton, Page 95
  . Honey Bros. Roller Mills, Park River, Page 101

Centennial Section:
- "Haynes Collection", N.D. Institute for Regional Studies, NDSU Library, NP Ice Bridge & Main Street, Bismarck, Page 6

- Fred Hultstrand "History in Pictures" Collection, NDSU, Fargo:
  . Three Drills Seeding, Page 7
  . Potato Warehouse, Park River, Page 8
  . Shocking Grain, Page 8



COMMENTS FROM THE STATE STATISTICIAN

It is a pleasure to present the 32nd annual summary entitled "North Dakota Agricultural Statistics, Centennial Issue." This annual summary includes information on crop production, livestock numbers, farm income, prices, land values and rents, weather and grain shipments. It also contains county estimates for major crop and livestock items and a special section commemorating the state's centennial.

Publication of this report is made possible through the cooperative efforts and funding of the National Agricultural Statistics Service of the United States Department of Agriculture and the North Dakota State University Agricultural Experiment Station and Extension Service. Other contributors include the National Weather Service, North Dakota Wheat Commission, American Malting Barley Association, Inc., The Upper Great Plains Transportation Institute, North Dakota Public Service Commission and North Dakota State Land Department.

I wish to express my sincere thanks to the many North Dakota farmers, ranchers and agribusiness people people who voluntarily provide the basic data from which the official estimates are established. My gratitude is also extended to the county extension agents and their staff, as well as other university, state and federal agencies.

Finally, a special thanks to the field enumerators and telephone enumerators who are a vital link in our data gathering process, and to all members of my office staff for their excellent work and continued dedication in preparing this publication.

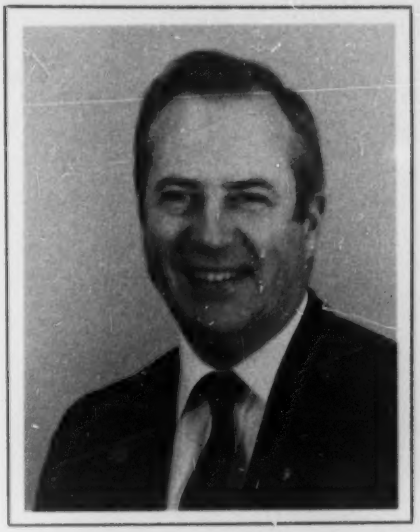
Steven D. Wiyatt

Steven D. Wiyatt
State Statistician

To create a profitable and sustainable agriculture is the goal of agricultural research. The North Dakota Agricultural Experiment Station will recognize 100 years of service to production agriculture in 1989-90. The next century agriculture will no doubt focus, also, on production agriculture and add a new dimension for economic development.

The pages of this book are excellent means for information transfer, but they must be read and studied. Hopefully, this statistical report will be of value as you go about your work. The new dimension will be to read between the lines for those opportunities to either enhance your profit bottom line or investigate opportunities to develop economic initiatives.

To read and study is only part of education. I urge you to visit our field days, tour the research plots and stations. Research information is no good unless it is useful and used!



H. Roald Lund
Director, N.D. Agricultural Experiment Station

COMMENTS FROM STATE COOPERATORS

As the director of the NDSU Extension Service, it's my privilege to help bring you this 1989 version of NORTH DAKOTA AGRICULTURAL STATISTICS. A close working partnership of federal and state agencies has made this wealth of information available to farmers and ranchers in North Dakota for over three decades, and has contributed to the state's economic progress.

As agriculture in North Dakota becomes more complex and economic success requires increasingly intensive management, the need for accurate data becomes more imperative as well. I trust the wide range of information included in this bulletin will suit the information needs of your operation.

In 1989, the NDSU Extension Service is celebrating the 75th anniversary of the signing of the Smith-Lever Act which provides for the federal government through the U.S. Department of Agriculture to partner with states and counties in funding extension work. The theme of extension is "helping you put knowledge to work." I hope this NORTH DAKOTA AGRICULTURAL STATISTICS contributes to the knowledge base you use in your business to make a better quality of life for your family and community. Please use it to your best advantage.

William H. Pietsch
Director, NDSU Extension Service

CONGRATULATIONS

NORTH DAKOTA

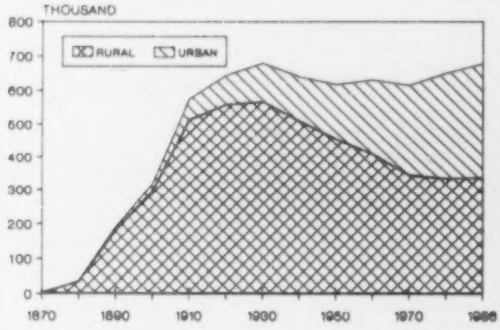
ON

NORTH DAKOTA CENTENNIAL

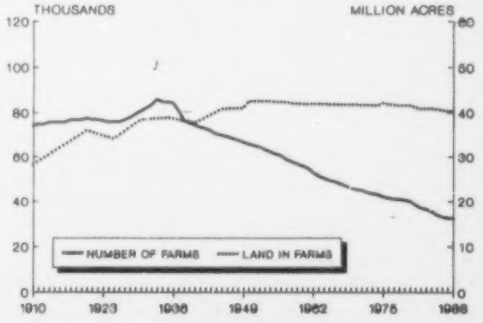
The history of North Dakota was being written long before statehood was granted by President Harrison on November 2, 1889. Norwegian and German immigrants rapidly homesteaded North Dakota with the German population being predominantly from Russia. Pembina became the first European community in North Dakota in 1799.

Means of transportation were developed before any communities were established. Fur trading boats navigated the Missouri and Red Rivers and were eventually replaced by steamboats and later the railroad. The Northern Pacific Railway reached Fargo in 1872 and was completed as a transcontinental railroad through the Dakota Territory in 1881. The Great Northern Railroad, laying its major emphasis on the development of spur lines, was completed through North Dakota in 1887. Agriculture was immediately necessary to support the railroads and the establishment of towns around those railroads catered to the needs of the farmer.

POPULATION GROWTH
NORTH DAKOTA, 1870 - 1986



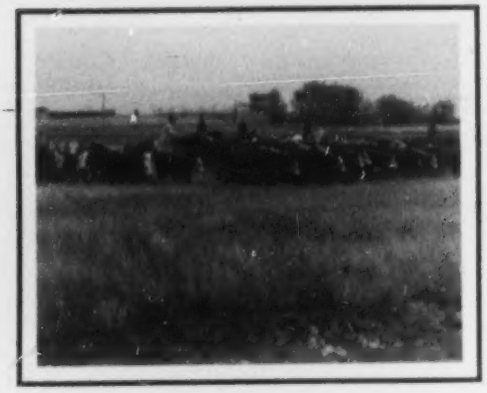
NUMBER OF FARMS & LAND IN FARMS
NORTH DAKOTA, 1910 - 88



A Century of . . . .

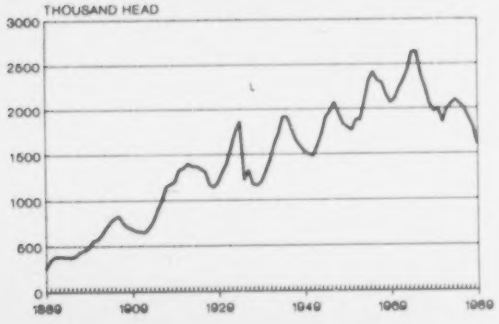
Continuous Growth

"The farmers are the founders of civilization and prosperity."
- Daniel Webster

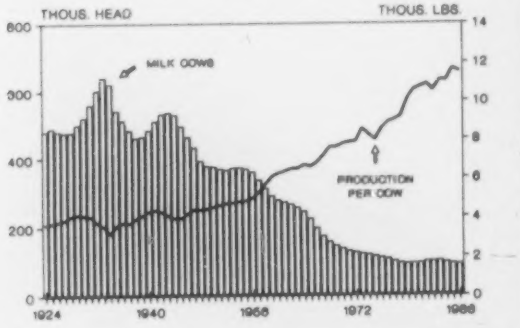


Lush grasslands were common when the first settlers arrived in the Dakota Territory. These grasslands made the western part of the state suitable for ranching when ranching was introduced in 1878. The Little Missouri National Grasslands, which have been preserved today in three National Grassland areas, cover more than a million acres in western North Dakota.

ALL CATTLE
NORTH DAKOTA, 1889 - 1989



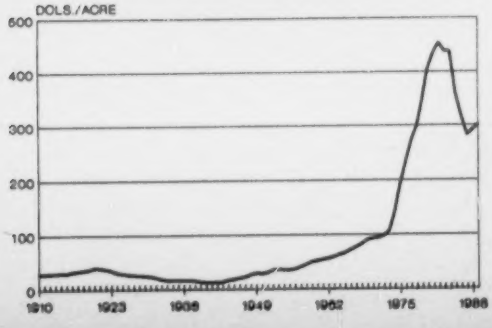
NUMBER OF MILK COWS & PRODUCTION PER COW
NORTH DAKOTA, 1924 - 88



and Advancement

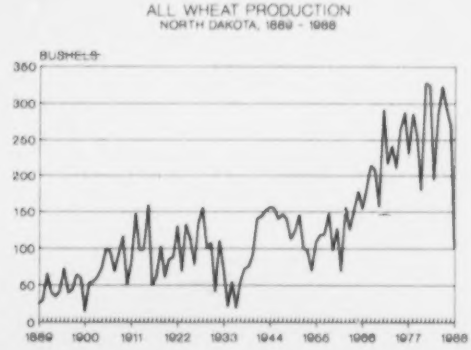
The Red River Valley, with its rich, black soil (a result of glacial Lake Agassiz' existence), is one of the world's prime pieces of real estate. Joseph Rolette filed the first homestead entry in the northwest part of the Red River Valley in 1868. The fame of the Red River Valley became known with the development of the Bonanza farms during the mid-1870's. The State's population grew from 2,405 to 36,909 between 1870 and 1880.

AVERAGE VALUE OF FARMLAND AND BUILDINGS
NORTH DAKOTA, 1910 - 89

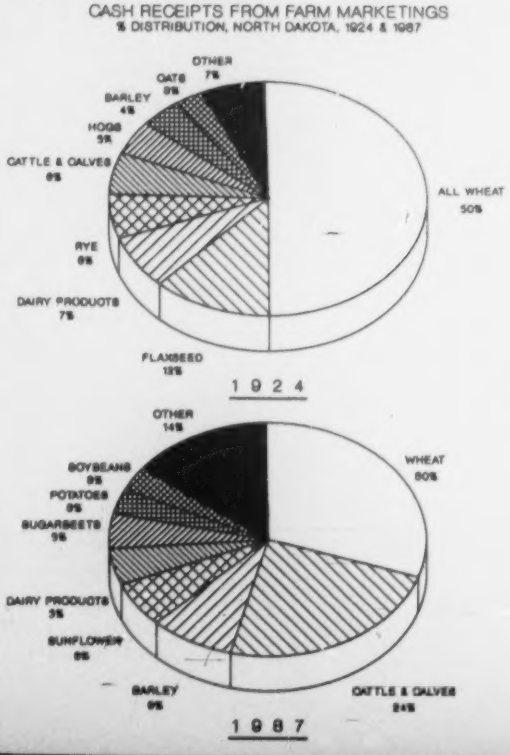


Agriculture has been a driving force in the lives of North Dakotans for many years. The first flour mill was constructed at Walhalla in 1851 and Marquis de Mores opened a packing plant at Medora in 1883. The first potato flake plant in North Dakota was opened in Grand Forks in 1958 with the first sugarbeet refinery being established at Drayton in 1965.

While Preserving



Looking back through the history of agriculture, North Dakota farmers have scaled obstacles with an open sight for creating a better way of life. This better way has included adapting technological advancements which paved the way for agricultural diversification. In 1924, income from wheat production accounted for one-half of the farm cash receipts. Within the top eight farm income categories for that year, five were small grain crops. However, by 1987 only two small grain commodities, wheat and barley, remained as top farm income earners for the State. The increased economic advantage of growing row crops combined with the introduction of sunflower in North Dakota led agricultural diversification and allowed row crops to capture four of the top eight income categories for 1987.



Our Historic Past.

The need to know was necessary 100 years ago, just as it is today. The first printing press was brought to North Dakota in 1848 by Rev. Alonza Barnard and the first post office opened in 1851 at Pembina. The first telegraph line became operational in 1871. Two years later, Col. C. A. Lounsberry published the first issue of the "Bismarck Tribune" and a year later "The Express", the first newspaper of the Red River Valley was printed in Fargo. Today, there are ten daily newspapers and 84 weekly newspapers in the State.

"If it had not been for what I learned during those years I spent here in North Dakota, I never in the world would have been President."

- Theodore Roosevelt

- NORTH DAKOTA'S RANK AMONG STATES
- RANK OF COUNTIES

INTRODUCTORY STATISTICS

- FARM INCOME
- REAL ESTATE
- WEATHER

Summary of

NORTH DAKOTA'S RANK IN AGRICULTURE

NORTH DAKOTA'S 1988 CROP RANK AMONG STATES

North Dakota Ranked...		North Dakota Produced... (Percent of Nation)
1st in	Durum Wheat	70%
	Other Spring Wheat	34%
	Flaxseed	80%
	Sunflower	82%
2nd in	Barley	14%
	Pinto Beans	20%
	Navy Beans	34%
3rd in	Total Cropland	6%
	Dry Edible Beans	14%
4th in	Sugarbeets	10%
	Rye	9%
	All Wheat	6%
	Area Planted - Principal Crops	6%

3/89

North Dakota Agricultural Statistics Service

THE 10 LEADING STATES AND NORTH DAKOTA'S RANK

Item	1	2	3	4	5	6	7	8	9	10	North Dakota's Rank	Percent of Nation
CROP PRODUCTION - 1988												
Corn for Grain	IA	NE	IL	IN	MN	OH	MO	KS	SD	WI	23	*
Corn for Silage	WI	NY	PA	MN	IA	CA	NE	MI	VA	OH	27	1
Winter Wheat	KS	OK	WA	TX	MO	CO	NE	IL	AR	ID	37	*
Durum Wheat	ND	CA	AZ	MT	MN	SD	--	--	--	--	1	70
Other Spring Wheat	ND	MN	ID	MT	WA	SD	OR	CO	UT	NV	1	34
All Wheat	KS	OK	WA	ND	TX	CO	MO	ID	NE	IL	4	6
Oats	IA	MN	SD	WI	PA	NE	IL	OH	TX	NY	11	3
Barley	ID	ND	WA	MT	MN	CA	OR	CO	UT	WY	2	14
Rye	SD	GA	NE	ND	MN	NC	PA	OK	SC	MI	4	9
Flaxseed	ND	SD	MN	--	--	--	--	--	--	--	1	80
Potatoes	ID	WA	ME	OR	CO	WI	CA	ND	MN	MI	8	4
Sugarbeets	CA	MN	ID	ND	MI	NE	WY	MT	CO	TX	4	10
Soybeans	IA	IL	MN	IN	MO	OH	AR	NE	LA	MS	22	1
Pinto Beans	CO	ND	NE	ID	WY	KS	WA	MN	NM	MT	2	20
Dry Edible Beans, All	NE	CA	ND	CO	ID	MI	WA	WY	MN	NY	3	14
Sunflower, Oil	ND	SD	MN	TX	--	--	--	--	--	--	1	81
Sunflower, Non-oil	ND	MN	TX	SD	--	--	--	--	--	--	1	88
Sunflower, All	ND	SD	MN	TX	--	--	--	--	--	--	1	82
Alfalfa Hay & Mixtures	CA	IA	MN	WI	NE	ID	MI	CO	NY	KS	27	1
All Other Hay	TX	MO	KY	KS	OK	NE	MN	NY	PA	TN	19	2
All Hay	CA	MN	IA	NE	TX	KS	MO	NY	WI	PA	25	2
Total Acreage of Principal Crops Planted	IA	IL	MN	ND	KS	TX	NE	SD	MO	IN	4	6
Total Acreage of Principal Crops Harvested	IA	IL	KS	MN	NE	TX	ND	SD	MO	IN	7	6
LIVESTOCK ON HAND - JAN 1, 1989												
All Cattle & Calves	TX	KS	NE	OK	IA	CA	MO	WI	SD	MN	23	2
Cows That Have Calved												
Milk	WI	CA	NY	MN	PA	OH	TX	MI	IA	MO	30	1
Beef	TX	MO	OK	NE	SD	KS	MT	IA	FL	KY	15	2
All Hogs - Dec. 1, 1988	IA	IL	MN	IN	NE	MO	NC	OH	SD	KS	21	1
All Sheep & Lambs	TX	CA	WY	CO	SD	MT	NM	UT	OR	IA	17	2
Sheep & Lambs on Feed	CO	TX	CA	OR	WY	KS	SD	IA	NE	OH	18	1
Cattle & Calves on Feed	TX	NE	KS	CO	IA	CA	IL	MN	OK	AZ	26	*
All Chickens, Dec. 1, 1988	CA	IN	PA	GA	OH	AR	NC	TX	AL	FL	45	*
LIVESTOCK PRODUCTION IN 1988												
Calf Crop	TX	MO	OK	WI	CA	NE	SD	IA	KS	MT	15	2
Lamb Crop	TX	CA	WY	SD	MT	UT	CO	IA	OR	NM	14	2
Pig Crop	IA	IL	MN	IN	NE	MO	NC	OH	SD	KS	21	1
Turkeys Raised	NC	MN	CA	AR	MO	VA	IN	PA	IA	SC	20	1
Egg Production	CA	IN	PA	OH	GA	AR	NC	TX	FL	AL	44	*
Wool Production	TX	WY	CA	CO	MT	SD	UT	NM	IA	OR	16	2
Honey Production	FL	CA	MN	SD	ND	NE	TX	WI	IA	MI	5	7
Milk Production	WI	CA	NY	MN	PA	MI	TX	OH	WA	IA	32	*
Butter	WI	CA	MN	WA	PA	MI	NY	KS	OK	OR	12	*
American Cheese	WI	MN	CA	IA	ID	NY	MO	SD	ND	UT	9	2
CASH RECEIPTS - 1988												
Crops	CA	FL	IL	IA	TX	MN	NE	IN	KS	WA	15	2
Livestock	TX	NE	IA	CA	KS	WI	MN	CO	OK	PA	30	1
Total	CA	TX	IA	NE	KS	MN	IL	FL	WI	IN	25	2
Government Payments	IA	IL	TX	NE	MN	KS	ND	IN	SD	MO	7	5
Realized Income												
Gross 1/	CA	TX	IA	NE	IL	MN	KS	WI	FL	IN	22	2
Net 1/	CA	TX	IA	FL	NE	MN	WI	KS	IL	NC	24	2

* Less than one-half of one percent. 1/ 1987 Data.

RANK OF NORTH DAKOTA'S COUNTIES

County	Crop Production - 1988								Livestock on Hand			
	All Wheat	Spring Wheat	Durum Wheat	Sun-flower	Barley	Oats	Corn Grain	All Hay	All Cattle Jan. 1 1989	Milk Cows Jan. 1 1989	All Hogs Dec. 1 1988	All Sheep Jan. 1 1989
Adams	43	40	46	43	42	43	46	22	22	34	29	2
Barnes	9	6	35	1	7	25	12	25	32	20	7	8
Benson	25	36	11	13	25	30	20	19	22	26	36	19
Billings	52	52	52	53	50	50	50	36	27	38	48	47
Bottineau	5	17	2	17	6	1	44	19	40	38	45	34
Bowman	40	43	27	47	40	45	37	46	25	52	27	1
Burke	18	21	12	28	17	5	41	24	46	46	53	30
Burleigh	46	42	41	37	52	47	31	2	9	12	12	16
Cass	3	3	16	18	4	28	2	43	32	30	2	5
Cavalier	1	7	3	20	3	20	28	49	48	46	43	53
Dickey	32	26	32	14	33	42	4	27	13	11	3	10
Divide	21	48	7	42	20	12	50	44	45	32	22	35
Dunn	45	39	48	49	45	33	47	7	2	1	23	21
Eddy	35	29	30	12	32	11	17	12	38	35	49	21
Emmons	49	45	51	45	49	52	25	21	6	2	18	36
Foster	27	16	40	4	29	8	15	41	38	38	30	17
Golden Valley	47	49	38	51	43	43	50	53	29	35	31	17
Grand Forks	2	1	23	19	1	22	6	32	43	32	16	30
Grant	41	34	53	29	41	34	21	9	3	4	5	12
Griggs	23	14	24	10	14	18	16	35	41	32	32	44
Hettinger	28	20	26	31	31	19	30	15	32	14	11	44
Kidder	51	51	44	48	48	50	11	3	6	9	24	3
LaMoure	26	19	25	3	30	28	8	18	18	8	13	9
Logan	44	37	45	34	47	38	26	11	10	6	36	48
McHenry	29	23	22	11	26	7	19	1	3	12	34	14
McIntosh	50	46	43	41	50	48	50	33	12	7	36	39
McKenzie	34	27	28	50	37	38	23	10	3	43	21	7
McLean	17	24	10	8	24	3	18	6	15	20	25	27
Mercer	42	35	39	44	46	23	32	14	14	20	41	40
Morton	39	33	42	33	36	45	29	4	1	1	7	12
Mountrail	19	49	6	27	21	6	47	13	21	27	49	24
Nelson	12	13	9	6	8	10	24	17	43	29	44	29
Oliver	48	44	49	39	44	35	34	37	19	10	14	33
Pembina	6	4	29	35	11	37	13	47	47	46	9	48
Pierce	31	38	17	23	27	32	38	37	29	16	47	42
Ramsey	10	15	4	5	10	16	27	48	48	43	39	42
Ransom	30	25	36	15	28	27	3	34	22	27	6	28
Renville	16	12	14	25	13	4	43	51	50	38	51	51
Richland	13	9	19	30	18	14	1	29	16	14	1	25
Rolette	24	47	8	32	16	21	45	31	37	30	45	41
Sargent	33	31	31	21	34	36	5	42	29	23	4	25
Sheridan	38	30	50	24	39	31	33	27	32	16	41	51
Sioux	53	53	46	52	52	53	41	30	19	25	39	36
Slope	37	32	34	46	35	41	40	40	27	43	18	11
Stark	36	28	37	36	38	26	35	16	11	5	15	15
Steele	15	8	33	22	5	40	9	52	52	46	51	44
Stutsman	14	10	18	2	19	9	14	5	6	3	10	6
Towner	11	41	1	16	12	24	39	45	51	46	34	30
Traill	7	5	21	40	2	49	7	50	52	46	20	48
Walsh	4	2	20	26	9	17	10	39	42	35	17	36
Ward	8	11	5	9	15	2	49	8	16	16	28	19
Wells	20	17	15	7	23	13	22	22	26	24	26	23
Williams	22	22	13	38	22	15	36	26	36	38	33	4

NORTH DAKOTA FARM INCOME

Source: Economic Indicators of the Farm Sector, U.S.D.A. - E.R.S.

1988 CASH RECEIPTS, PRELIMINARY

Preliminary figures for cash receipts from all farm product marketings by North Dakota farmers totaled $2.4 billion in 1988, up 5 percent from both 1986 and 1987. Cash receipts were 4 percent below the average for 1983-87.

Cash receipts from crops totaled $1.6 billion, up 5 percent from 1987. Livestock receipts, at $809 million, advanced 6 percent from the previous year. Government payments decreased 1 percent from 1987's record high level to $715 million.

1987 CASH RECEIPTS

In 1987, cash receipts from farm marketings and government payments totaled $3.03 billion, up slightly from 1986, but down 5 percent from 1985. Marketing of crops accounted for 51 percent of the total marketings, livestock accounted for 25 percent and 24 percent came from government programs.

The decline in receipts for crops was led by the oil crops, which were down by 16 percent from 1986, to $48.1 million; flaxseed receipts were down 42 percent, sunflower receipts were down 22 percent, while soybean re-ceipts were up 14 percent. Feed crops receipts fell by $41.5 million, down 12 percent; corn receipts fell 25 percent, hay receipts were off 17 percent and barley receipts dropped 10 percent. Food crop receipts were off by $20.5 million, a drop of 3 percent; wheat down 3 percent accounted for the drop, while rye was up by 11 percent. Receipts for vegetables were up by 6 percent; a 42 percent increase in potato receipts was mostly offset by a 20 percent decline in dry bean receipts. Sugarbeet receipts were unchanged from 1986.

Meat animals accounted for most of the rise in livestock receipts, with a $90.0 million increase, up 17 percent. Dairy products receipts were also up, with a $1.7 million increase up 1 percent. Poultry receipts, however, fell by $3.0 million, off 25 percent. Wool receipts were up 32 percent, while honey receipts were down 3 percent.

INCOME PER FARM

Realized gross farm income averaged $96,711 in 1987. This is up 1.5 percent from $95,270 in 1986, but 3.6 percent below 1985.

Net farm income averaged $23,212 in 1987; up 11.0 percent from the 1986 net income of $20,903 and up 18.5 percent from $19,591 in 1985.

CASH RECEIPTS FROM FARM MARKETINGS AND GOVERNMENT PAYMENTS, North Dakota, 1985-87 and 1988

Item	1985 1/	1986 1/	1987	Percent Total 1987 2/	1988
	--- Thousand Dollars ---			-Pct.-	-000 $-
CROPS	2,006,133	1,639,039	1,548,394	51.1	1,625,149
Food Grains	1,035,340	727,216	706,752	23.3	
Wheat	1,029,973	721,711	700,652	23.1	
Rye	5,367	5,505	6,100	0.2	
Feed Crops	410,073	338,833	297,313	9.8	
Barley	291,961	220,231	197,500	6.5	
Corn	79,606	79,324	59,600	2.0	
Hay	21,497	22,914	19,046	0.6	
Oats	17,009	16,364	21,167	0.7	
Oil Crops	287,354	292,432	244,293	8.1	
Sunflower	171,469	186,751	144,813	4.8	
Soybeans	87,670	67,683	77,305	2.6	
Flaxseed	28,215	37,998	22,175	0.7	
Veg, Fruits, Nuts	151,728	131,414	139,632	4.6	
Dry Beans	67,792	74,629	59,341	2.0	
Potatoes	83,296	56,020	79,596	2.6	
Misc.	640	765	695	-	
Other Crops	121,638	149,144	160,404	5.3	
Sugarbeets	89,651	115,228	115,228	3.8	
Other	31,987	33,916	45,176	1.5	
LIVESTOCK	686,850	671,250	759,708	25.1	808,522
Meat Animals	524,547	517,023	606,979	20.0	
Cattle & Calves	479,238	459,389	545,729	18.0	
Hogs	34,475	47,604	50,753	1.7	
Sheep & Lambs	10,834	10,030	10,497	0.3	
Dairy Products	122,778	116,729	118,437	3.9	
Poultry & Eggs	13,467	12,094	9,073	0.3	
Turkeys	9,052	9,552	7,020	0.2	
Eggs	4,130	2,338	1,933	0.1	
Other Chickens	125	60	60	0.0	
Misc. Livestock	26,058	25,404	25,219	0.8	
Wool	937	875	1,156	0.0	
Other Livestock	25,121	10,565	10,511	0.3	
Honey	NA	13,964	13,552	0.4	
TOTAL CROPS & LIVESTOCK	2,692,983	2,310,289	2,308,102	76.2	2,433,671
Gov't Payments	483,652	700,180	719,783	23.8	715,069
GRAND TOTAL	3,176,635	3,010,469	3,027,885	100.0	3,148,740

1/ Revised. 2/ Items may not add due to rounding.

CASH RECEIPTS FROM MARKETINGS, BY MONTHS and Percent Distribution, North Dakota, 1988

Month	Livestock		Crops		Total	
	(000 $)	(Pct.)	(000 $)	(Pct.)	(000 $)	(Pct.)
January	89,729	11.1	103,828	6.4	193,557	8.0
February	91,960	11.4	83,829	5.2	175,789	7.2
March	72,210	8.9	109,585	6.7	181,795	7.5
April	60,866	7.5	77,410	4.7	138,276	5.7
May	49,675	6.2	126,436	7.8	176,111	7.2
June	34,977	4.3	253,445	15.6	288,422	11.9
July	36,233	4.5	134,913	8.3	171,146	7.0
August	45,307	5.6	117,968	7.3	163,275	6.7
September	71,766	8.9	116,535	7.2	188,301	7.7
October	97,059	12.0	144,043	8.8	241,102	9.9
November	85,118	10.5	204,423	12.6	289,541	11.9
December	73,622	9.1	152,734	9.4	226,356	9.3
Year	808,522	100.0	1,625,149	100.0	2,433,671	100.0

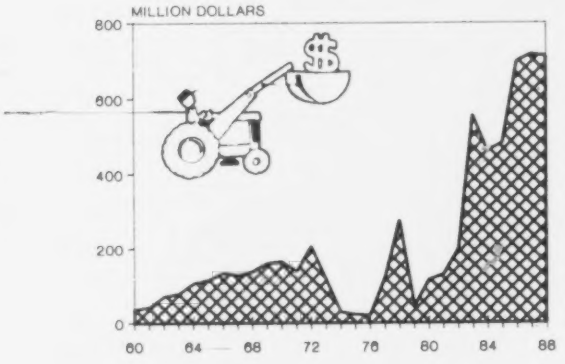
FARM INCOME CONT.

CASH RECEIPTS FROM GOVERNMENT PAYMENTS
North Dakota, 1985-88

Item	1985	1986	1987	1988
	---Thousand Dollars---			
Conservation	4,892	5,309	43,372	76,570
Feed Grain Program	78,914	115,067	196,228	101,638
Wheat Program	314,187	511,090	409,187	235,851
Miscellaneous	85,659	68,714	70,996	301,010
Total	483,652	700,180	719,783	715,069

NA - Not Available.

CASH RECEIPTS FROM GOVERNMENT PAYMENTS
NORTH DAKOTA, 1980 - 88



FARM INCOME
North Dakota, 1978-87

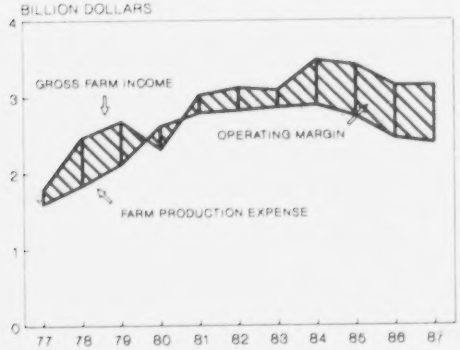
Year	Gross 1/		Net	
	Total	Per Farm	Total	Per Farm
	Mil. $	Dol.	Mil. $	Dol.
1978	2,463.6	60,088	602.0	14,683
1979	2,680.7	66,190	500.6	12,360
1980	2,318.9	57,973	-168.1	-4,203
1981	3,021.0	78,468	225.7	5,862
1982	3,118.2	84,276	294.5	7,959
1983	3,084.3	84,501	220.8	6,049
1984	3,476.4	97,927	585.1	16,482
1985	3,410.4	100,306	666.1	19,591
1986	3,143.9	95,270	689.8	20,903
1987	3,143.1	96,711	754.4	23,212

1/ Total gross income (allows for inventory adjustment).

GROSS & NET FARM INCOME
North Dakota, 1985-87

Item	1985	1986	1987
	- - - Million Dollars - - -		
Gross Farm Income	3,410.4	3,143.9	3,143.1
Receipts from Farm Mktgs.	2,693.0	2,310.3	2,308.1
Government Payments	483.7	700.2	719.8
Non-Cash Income	156.9	137.6	124.5
Other Farm Income	34.9	27.2	32.1
Value of Inventory Adj.	41.9	-31.5	-41.5
Farm Production Expenses	2,744.2	2,454.1	2,388.7
Net Farm Income	666.1	689.8	754.4
	- - - Dollars - - -		
Gross Income Per Farm	100,306	95,270	96,711
Net Income Per Farm	19,591	20,903	23,212

OPERATING MARGIN FOR
NORTH DAKOTA FARMERS, 1977 - 87



FARM PRODUCTION EXPENSES
North Dakota, 1985-87

Item	1985	1986	1987
	-- Million Dollars --		
Intermediate Product Expenses	1,180.3	1,033.2	1,063.2
Feed	77.3	62.8	66.7
Livestock	36.9	26.8	37.4
Seed	97.4	86.8	87.5
Fertilizer and Lime	155.8	155.2	157.1
Pesticides	136.3	122.4	125.2
Fuel and Oil	211.8	154.1	142.9
Electricity	32.5	29.4	36.2
Repair and Maintenance	146.4	147.2	149.7
Other Miscellaneous	285.8	248.6	260.6
Interest: Real Estate	219.4	202.8	183.4
Non-real Estate	250.8	212.7	210.5
Labor Expenses	82.8	83.3	90.8
Net Rent To Non-op. Landlords	379.3	322.5	302.2
Capital Consumption	542.4	511.7	445.7
Property Taxes	89.3	88.0	92.9
Total Production Expenses	2,744.2	2,454.1	2,388.7

Source of above data: Economic Indicators of the Farm Sectors, U.S.D.A., E.R.S.

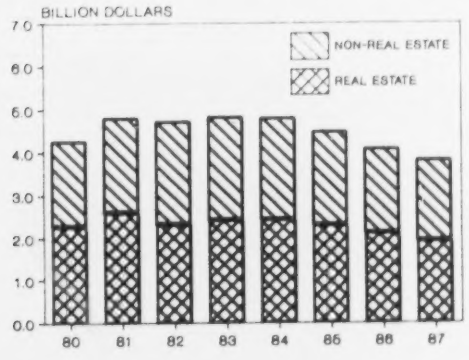
FARM ASSETS & DEBT

FARM BALANCE SHEET, NORTH DAKOTA, DECEMBER 31, 1983-87

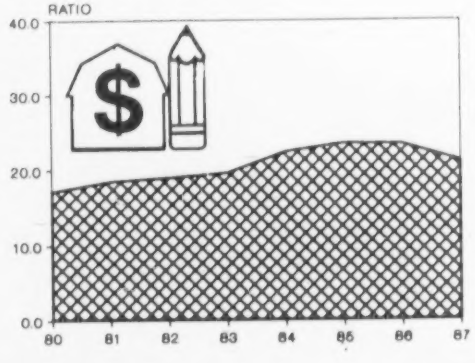
Item	1983	1984	1985	1986	1987
			EXCLUDING FARM HOUSEHOLD		
			- - - - - - - - Million Dollars - - - - - - - -		
ASSETS					
Total Farm Assets	23,002.4	20,018.9	17,738.1	16,108.3	16,564.9
Real Estate	17,125.9	14,051.2	12,349.1	10,937.5	11,275.5
Livestock and Poultry	910.4	883.2	822.5	837.7	1,112.5
Machinery and Motor Vehicles	3,147.4	3,001.2	2,664.3	2,434.9	2,247.2
Crops	755.5	819.2	761.4	720.9	749.6
Financial Assets	1,063.2	1,264.1	1,140.8	1,177.3	1,180.1
DEBTS					
Total Farm Debt	4,594.1	4,567.1	4,257.9	3,873.3	3,622.1
Real Estate Debt	2,321.6	2,330.7	2,208.9	2,030.4	1,853.2
Nonreal Estate Debt	2,272.5	2,236.4	2,049.0	1,842.8	1,768.9
Equity	18,408.3	15,451.8	13,480.2	12,235.0	12,942.8
RATIOS					
Equity/Assets	80.0	77.2	76.0	76.0	78.1
Debt/Equity	25.0	29.6	31.6	31.7	28.0
Debt/Assets, Total	20.0	22.8	24.0	24.0	21.9
Debt/Assets, Real Estate	13.6	16.6	17.9	18.6	16.4
Debt/Assets, Nonreal Estate	38.7	37.5	38.0	35.6	33.4
Returns to Operator/Total Debt	3.1	11.0	13.6	15.7	18.9
			INCLUDING FARM HOUSEHOLDS		
			- - - - - - - Million Dollars - - - - - - -		
ASSETS					
Total Farm Assets	24,696.5	21,580.4	19,201.8	17,558.1	18,128.8
Real Estate	17,999.0	14,760.0	12,965.3	11,477.4	11,826.0
Livestock and Poultry	910.4	883.2	822.5	837.7	1,112.5
Machinery and Motor Vehicles	3,316.7	3,180.8	2,808.9	2,558.2	2,391.1
Crops	755.5	819.2	761.4	720.9	749.6
Household Equipment and Furnishings	343.1	341.9	358.3	374.2	411.0
Deposits and Currency	317.0	341.4	356.0	418.9	446.7
U.S. Savings Bonds	133.4	134.6	141.6	164.5	180.2
Investments in Cooperatives	921.4	1,119.4	987.8	1,006.3	1,011.8
DEBTS					
Total Farm Debt	4,851.3	4,825.9	4,508.2	4,108.0	3,845.1
Real Estate Debt	2,438.0	2,447.0	2,318.6	2,130.5	1,943.7
Nonreal Estate Debt	2,413.3	2,378.9	2,189.6	1,977.5	1,901.4
Equity	19,845.3	16,754.4	14,693.6	13,450.1	14,283.7
RATIOS					
Equity/Assets	80.4	77.6	76.5	76.6	78.8
Debt/Equity	24.4	28.8	30.7	30.5	26.9
Debt/Assets, Total	19.6	22.4	23.5	23.4	21.2
Debt/Assets, Real Estate	13.5	16.6	17.9	18.6	16.4
Debt/Assets, Nonreal Estate	36.0	34.9	35.1	32.5	30.2
Net Farm Income/Debt	4.6	12.1	14.3	16.0	19.0

Source: Economic Indicators of the Farm Sector, U.S.D.A. -E.R.S.

FARM DEBT
NORTH DAKOTA, 1980 - 87

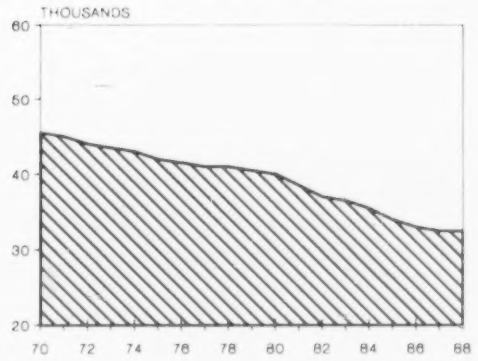


DEBT TO ASSET RATIO
NORTH DAKOTA, 1980 - 87

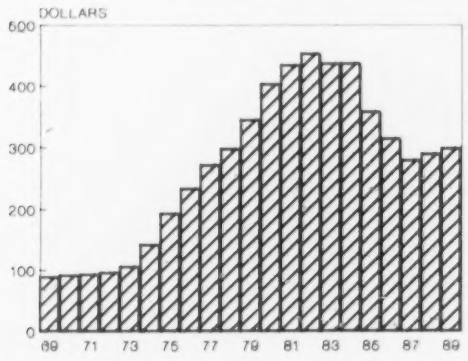


FARM REAL ESTATE

NUMBER OF FARMS
NORTH DAKOTA, 1970 - 88



FARM REAL ESTATE - VALUE PER ACRE
NORTH DAKOTA, 1969 - 89



NUMBER OF FARMS, LAND IN FARMS, AVERAGE SIZE, VALUE, AND REAL ESTATE TAXES
North Dakota, 1975-89

Year	Number of Farms	Land in Farms	Average Size of Farms	Total Value	Value per Acre	Farm Real Estate Taxes/$100 Value
	(Number)	(000 Acres)	(Acres)	(Mil. Dols.)	(Dols.)	(Dols.)
1975	42,000	42,300	1,007	8,249	195	.74
1976	41,500	42,000	1,012	9,903	236	.65
1977	41,000	41,800	1,020	11,451	274	.62
1978	41,000	41,700	1,017	12,493	300	.58
1979	40,500	41,700	1,030	14,470	347	.51
1980	40,000	41,700	1,043	16,888	405	.48
1981	38,500	41,300	1,073	18,007	436	.44
1982	37,000	41,000	1,108	18,655	455	.46
1983	36,500	41,000	1,123	17,999	439	.48
1984	35,500	41,000	1,155	17,999	439	.58
1985	34,000	40,900	1,203	14,724	360	.64
1986	33,000	40,700	1,233	12,894	317	.74
1987	32,500	40,500	1,246	11,419	282	NA
1988	32,500	40,400	1,243	11,817	292	NA
1989	NA	NA	NA	12,171	301	NA

NA - Not available.

RENT PER ACRE AND RATIO TO VALUE
North Dakota, 1980-89

Year	Farms		Cropland		Pastures	
	Rent Per Acre	Ratio Rent to Value	Rent Per Acre	Ratio Rent to Value	Rent Per Acre	Ratio Rent to Value
	(Dol.)	(Pct.)	(Dol.)	(Pct.)	(Dol.)	(Pct.)
1980	24.10	6.0	30.40	6.4	8.70	4.6
1981	25.50	5.9	31.60	6.1	9.10	4.3
1982	27.30	5.8	32.90	6.1	9.20	4.4
1983	26.90	6.3	32.60	6.5	8.70	4.4
1984	27.36	6.5	32.42	6.7	9.86	5.1
1985	25.70	7.4	31.70	7.6	9.00	5.6
1986	26.90	8.1	29.70	8.1	7.80	5.8
1987	23.40	7.7	28.20	8.4	7.80	6.7
1988	25.40	8.1	28.80	8.1	8.50	6.6
1989	24.20	8.1	29.40	8.4	8.40	6.8

RENT PER ACRE BY DISTRICT,
North Dakota, 1988-89

District	Rented for Cash					
	Farms		Cropland		Pasture	
	1988	1989	1988	1989	1988	1989
	- - - D o l l a r s - - -					
N.West	25.60	21.08	24.13	23.59	7.82	6.70
N.Cent.	23.40	21.00	26.28	25.81	8.38	9.21
N.East	34.31	36.17	37.91	38.26	10.05	11.36
W.Cent.	19.57	16.96	21.17	22.03	8.15	7.56
Cent.	24.82	24.16	24.56	26.86	8.56	9.30
E.Cent.	42.92	40.03	44.17	44.57	12.93	12.17
S.West	16.63	15.55	20.47	19.15	8.82	7.74
S.Cent.	14.54	15.54	18.57	19.74	7.55	8.53
S.East	29.26	31.21	31.66	35.38	10.70	12.12
STATE	25.40	24.20	28.80	29.40	8.50	8.40

Source: Agricultural Resources, ERS. Farm numbers and area, NASS.

BACKGROUND

The National Agricultural Statistical Service (NASS) of USDA conducts an annual survey of farmers and ranchers to obtain value of land and rental rates in their localities. The survey is designed tc provide state and national land values and crop reporting district cash rents.

The survey is funded by the Economic Research Service (ERS) of USDA, who publishes the state and national land values and rents obtained from the survey. These data are published annually with a preliminary report containing the land values released in April.

The full report, which includes rental rates, is released in July. ERS also releases state by state agricultural district rental rates. North Dakota data from these reports are shown on the preceding page. Copies of the full report are available from ERS in Washington, D.C.

COUNTY DATA

In 1989, North Dakota's Land Department contracted with the North Dakota office of NASS (North Dakota Agricultural Statistics Service) to produce county level statistics on cash rents. The data here are part of the report from this joint endeavor. Copies of the full report, which contain county minimum and maximum reported values and modes, are available upon request.

In North Dakota, a sample of 700 operations is normally used to get state and district data. To obtain county information an additional sample, of 2000 farming operations, was drawn. The sample was increased in all counties, except the six eastern counties.

The survey was conducted during late January and early February by mail with phone follow-up of those not responding by mail. There were over 2000 reports tabulated.

The data published here are the rounded averages of the reported values, they are not official estimates. Also, we caution the reader to exercise discretion when using data from counties where less than ten reports were tabulated.

Appreciation is expressed to all survey participants. Gratitude is also extended to the Washington D.C. staff of NASS for help in sampling design and developing the summary system. Funds for additional county sampling were provided by the North Dakota Land Department.

COUNTY RENTS

WHOLE FARMS RENTED FOR CASH: AVERAGE CASH RENT PER ACRE AND RENT AS A PERCENT OF VALUE, BY COUNTY, North Dakota, Feb. 1, 1989

County	Number of Reports	Average Rental Rate	Average Value of Rented Land	Rent as a Percent of Value
	No.	- - Dollars/Acre - -		Pct.
Burke	19	16.30	251.00	6.5
Divide	17	18.60	257.00	7.2
Mountrail	28	21.90	273.00	8.0
Renville	30	24.00	308.00	7.8
Ward	28	24.60	308.00	8.0
Williams	17	18.60	211.00	8.8
Benson	26	20.30	242.00	8.4
Bottineau	25	23.50	312.00	7.5
McHenry	12	19.10	212.00	9.0
Pierce	24	20.50	235.00	8.7
Rolette	19	21.60	235.00	9.2
Cavalier	35	30.60	406.00	7.5
Grand Forks	9	44.20	542.00	8.2
Nelson	40	26.80	304.00	8.8
Pembina	12	57.30	838.00	6.8
Ramsey	50	26.30	332.00	7.9
Towner	43	25.50	328.00	7.8
Walsh	21	40.00	577.00	6.9
Dunn	22	13.10	183.00	7.2
McKenzie	11	15.40	201.00	7.6
McLean	16	21.40	280.00	7.6
Mercer	12	15.60	214.00	7.3
Oliver	18	13.80	193.00	7.1
Eddy	16	22.40	299.00	7.5
Foster	16	28.20	307.00	9.2
Kidder	16	15.60	133.00	11.7
Sheridan	11	20.40	193.00	10.6
Stutsman	20	27.20	265.00	10.3
Wells	16	26.70	331.00	8.1
Barnes	18	28.40	352.00	8.1
Cass	16	48.80	638.00	7.6
Griggs	21	30.20	321.00	9.4
Steele	14	38.20	440.00	8.7
Traill	6	50.80	769.00	6.6
Adams	35	15.00	166.00	9.0
Billings	25	13.00	181.00	7.2
Bowman	19	13.20	156.00	8.4
Golden Valley	29	16.20	213.00	7.6
Hettinger	37	19.80	253.00	7.8
Slope	30	13.20	194.00	6.8
Stark	38	17.10	236.00	7.3
Burleigh	24	16.30	163.00	10.0
Emmons	27	16.40	195.00	8.4
Grant	17	16.20	152.00	10.7
Morton	18	14.40	168.00	8.6
Sioux	16	11.70	115.00	10.2
Dickey	15	21.30	233.00	9.1
LaMoure	20	23.60	256.00	9.2
Logan	19	15.70	181.00	8.7
McIntosh	14	16.40	184.00	8.9
Ransom	15	32.00	344.00	9.3
Richland	13	51.70	670.00	7.7
Sargent	22	31.00	312.00	10.0

COUNTY RENTS CONT.

CROPLAND RENTED FOR CASH: AVERAGE CASH RENT PER ACRE AND RENT AS A PERCENT OF VALUE, BY COUNTY, North Dakota, Feb. 1, 1989

County	Number of Reports	Average Rental Rate	Average Value of Rented Land	Rent as a Percent of Value
	No.	- Dollars/Acre -		Pct.
Burke	44	20.90	276.00	7.6
Divide	37	22.00	255.00	8.6
Mountrail	43	22.70	291.00	7.8
Renville	48	26.10	331.00	7.9
Ward	43	28.50	342.00	8.3
Williams	40	19.50	230.00	8.5
Benson	40	25.30	269.00	9.4
Bottineau	32	27.30	360.00	7.6
McHenry	36	24.80	238.00	10.4
Pierce	38	25.80	271.00	9.5
Rolette	32	24.60	268.00	9.2
Cavalier	64	31.80	412.00	7.7
Grand Forks	9	45.80	600.00	7.6
Nelson	61	28.70	325.00	8.8
Pembina	15	54.70	800.00	6.8
Ramsey	68	28.50	328.00	8.7
Towner	58	26.60	340.00	7.8
Walsh	27	49.20	701.00	7.0
Dunn	26	17.40	198.00	8.8
McKenzie	17	20.90	275.00	7.6
McLean	28	26.10	333.00	7.8
Mercer	29	20.30	238.00	8.5
Oliver	33	20.10	219.00	9.2
Eddy	34	25.10	308.00	8.1
Foster	29	32.00	333.00	9.6
Kidder	26	21.50	173.00	12.4
Sheridan	33	24.60	226.00	10.9
Stutsman	31	29.00	274.00	10.6
Wells	32	26.60	327.00	8.1
Barnes	33	32.30	386.00	8.4
Cass	19	51.40	666.00	7.7
Griggs	33	31.60	342.00	9.2
Steele	33	41.20	448.00	9.2
Traill	7	63.20	821.00	7.7
Adams	50	18.50	195.00	9.5
Billings	38	15.90	215.00	7.4
Bowman	49	16.50	217.00	7.6
Golden Valley	48	18.10	233.00	7.8
Hettinger	63	22.20	281.00	7.9
Slope	56	18.20	224.00	8.1
Stark	54	19.10	256.00	7.5
Burleigh	34	20.00	194.00	10.3
Emmons	35	19.90	200.00	9.9
Grant	32	19.50	198.00	9.9
Morton	28	20.40	190.00	10.7
Sioux	26	15.70	125.00	12.6
Dickey	31	24.70	253.00	9.8
LaMoure	31	28.50	273.00	10.4
Logan	28	21.90	227.00	9.6
McIntosh	27	20.00	216.00	9.3
Ransom	32	33.20	318.00	10.4
Richland	16	54.50	737.00	7.4
Sargent	27	33.00	340.00	9.7

PASTURE RENTED FOR CASH: AVERAGE CASH RENT PER ACRE AND RENT AS A PERCENT OF VALUE, BY COUNTY, North Dakota, Feb. 1, 1989

County	Number of Reports	Average Rental Rate	Average Value of Rented Land	Rent as a Percent of Value
	No.	- Dollars/Acre -		Pct.
Burke	31	6.80	122.00	5.6
Divide	30	6.60	124.00	5.3
Mountrail	34	6.30	109.00	5.8
Renville	32	8.70	138.00	6.4
Ward	40	8.00	135.00	5.9
Williams	25	5.60	98.00	5.8
Benson	31	8.70	100.00	8.7
Bottineau	18	8.60	140.00	6.2
McHenry	34	9.20	126.00	7.3
Pierce	29	9.00	115.00	7.8
Rolette	25	9.10	132.00	6.9
Cavalier	25	8.90	107.00	8.3
Grand Forks	4	14.50	200.00	7.2
Nelson	39	8.30	143.00	5.8
Pembina	7	8.60	293.00	3.0
Ramsey	32	12.30	186.00	6.7
Towner	26	9.40	156.00	6.0
Walsh	14	10.20	151.00	6.8
Dunn	26	8.70	129.00	6.7
McKenzie	16	5.50	108.00	5.1
McLean	20	7.80	116.00	6.8
Mercer	29	7.70	148.00	5.2
Oliver	34	8.40	125.00	6.7
Eddy	33	9.00	141.00	6.4
Foster	25	10.50	142.00	7.4
Kidder	26	9.20	104.00	8.8
Sheridan	33	8.30	107.00	7.7
Stutsman	26	10.20	134.00	7.6
Wells	28	9.20	143.00	6.4
Barnes	21	10.40	154.00	6.8
Cass	8	19.80	304.00	6.5
Griggs	27	10.20	147.00	6.9
Steele	25	9.70	162.00	6.0
Traill	*	*	*	*
Adams	49	7.90	104.00	7.7
Billings	35	7.60	117.00	6.5
Bowman	42	6.50	104.00	6.3
Golden Valley	35	6.30	85.00	7.4
Hettinger	54	8.80	138.00	6.4
Slope	42	7.20	118.00	6.1
Stark	50	9.90	161.00	6.1
Burleigh	33	8.30	112.00	7.4
Emmons	36	8.90	113.00	7.9
Grant	28	8.30	117.00	7.1
Morton	25	8.50	113.00	7.5
Sioux	21	6.40	74.00	8.6
Dickey	25	10.60	121.00	8.8
LaMoure	29	10.10	126.00	8.1
Logan	26	10.20	140.00	7.3
McIntosh	26	10.20	142.00	7.2
Ransom	23	13.00	144.00	9.0
Richland	8	20.50	264.00	7.8
Sargent	21	14.00	167.00	8.4

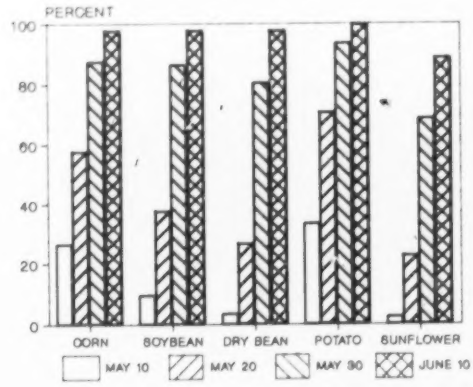
NORTH DAKOTA CROP & WEATHER DATA, 1988

PLANTING AND HARVEST PROGRESS BY DATE AND PRECIPITATION MAP

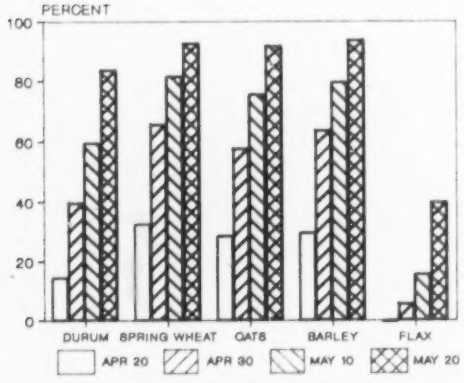
Highlights

- Planting progressed well ahead of normal due to a warm, dry April, May and June.
- Higher than normal temperatures June thru July pushed development of small grains while extreme drought conditions stunted height and growth.
- Harvest conditions July thru August were favorable due to prolonged drought.
- Small grain harvest was completed end of August, 3 weeks ahead of normal.
- Hot, dry growing season with mostly inadequate soil moisture pushed growth of most late season crops ahead of average.
- Conditions of all row crops steadily declined as hot, dry weather continued throughout the season.
- Dry conditions with early matured crops pushed row crop harvest ahead of average. All crops were harvested more than two weeks ahead of normal.

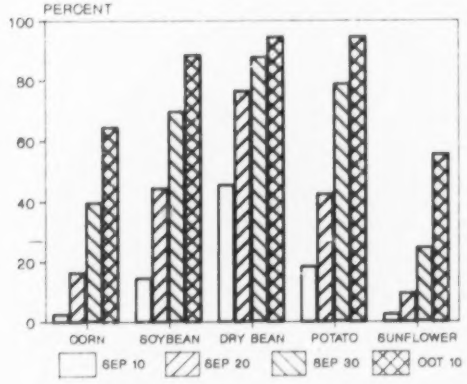
ROW CROP PLANTING PROGRESS
NORTH DAKOTA, 1988



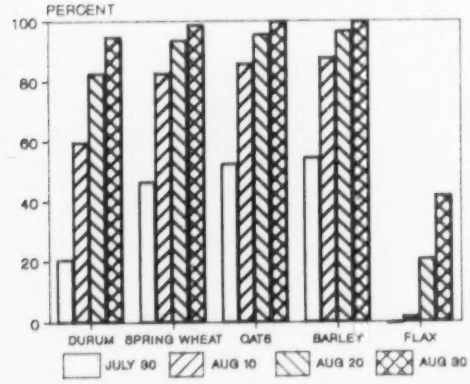
SMALL GRAIN PLANTING PROGRESS
NORTH DAKOTA, 1988



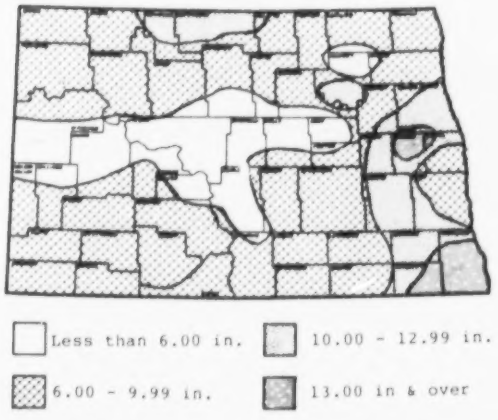
ROW CROP HARVEST PROGRESS
NORTH DAKOTA, 1988



SMALL GRAIN HARVEST PROGRESS
NORTH DAKOTA, 1988



ANNUAL GROWING SEASON PRECIPITATION
April-September, 1988 - North Dakota



PLANTING & HARVEST PROGRESS

North Dakota, 1988 and 5-Year Average (1984-88)

Crop	Year	April			May			June
		10	20	30	10	20	30	10
		- - Percent Planted - -						
Durum Wheat	1988	1	15	40	60	84	97	100
	Average	1/	5	23	52	80	97	100
Other Spring Wheat	1988	4	33	66	82	93	98	100
	Average	2	13	39	66	88	98	100
Oats	1988	2	29	58	76	92	98	100
	Average	1	11	37	62	87	98	100
Barley	1988	3	30	64	80	94	99	
	Average	1	11	38	67	90	99	
Flax	1988			6	16	40	77	89
	Average			5	18	42	77	94
Corn	1988			8	27	58	88	98
	Average			5	23	52	83	97
Soybeans	1988			2	10	38	87	98
	Average			2	9	34	80	98
Beans, Dry	1988				4	27	81	98
	Average				3	24	74	97
Potatoes	1988			7	34	71	94	100
	Average			6	29	66	92	99
Sunflower	1988			1/	3	23	69	89
	Average			1/	3	18	60	90
Sugarbeets	1988		40	89	100			
	Average			50	79	94	99	

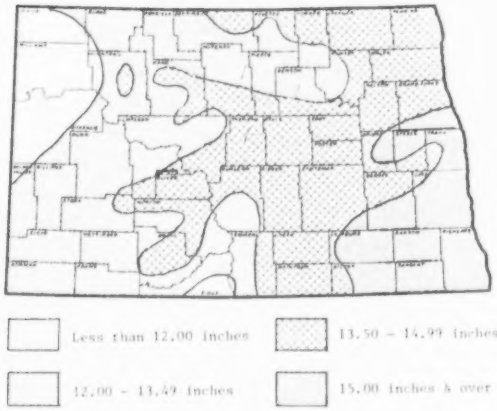
North Dakota, 1988 and 5-Year Average (1984-88)

Crop	Year	July	August			September			October			Nov.
		30	10	20	30	10	20	30	10	20	30	10
		- - Percent Harvested - -										
Durum Wheat	1988	21	60	83	95	99	100					
	Average	5	19	43	68	85	91	94	95	97		
Other Spring Wheat	1988	47	83	94	99	100						
	Average	11	32	58	79	91	95	97	98	99	100	
Winter Wheat	1988	92	100									
	Average	44	83	96	100							
Oats	1988	53	86	96	100							
	Average	16	42	68	87	96	98					
Barley	1988	55	88	97	100							
	Average	20	52	77	92	97	99					
Flax	1988		2	21	42	68	82	90	95	98	100	
	Average		1	8	21	40	58	71	80	89	97	
Corn for Grain	1988					3	17	40	65	87	98	100
	Average					1	4	12	28	51	75	93
Soybeans	1988				2	15	45	70	89	100		
	Average				1/	4	16	37	62	84	95	99
Beans, Dry	1988			1	13	46	77	88	95	100		
	Average			1/	6	28	50	67	79	92	99	
Potatoes	1988		1	4	10	19	43	79	95	100		
	Average		1/	2	6	22	49	76	91	99		
Sunflower	1988				1/	3	10	25	56	86	97	100
	Average				1/	1	2	6	22	46	72	93
Sugarbeets	1988					1/	2	8	62	96	100	
	Average					2	7	17	63	88	97	100

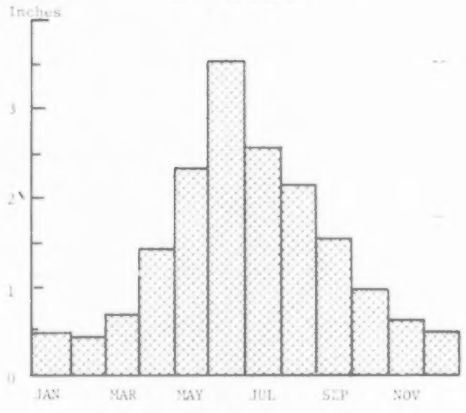
1/ Less than one-half of one percent.

GROWING SEASON

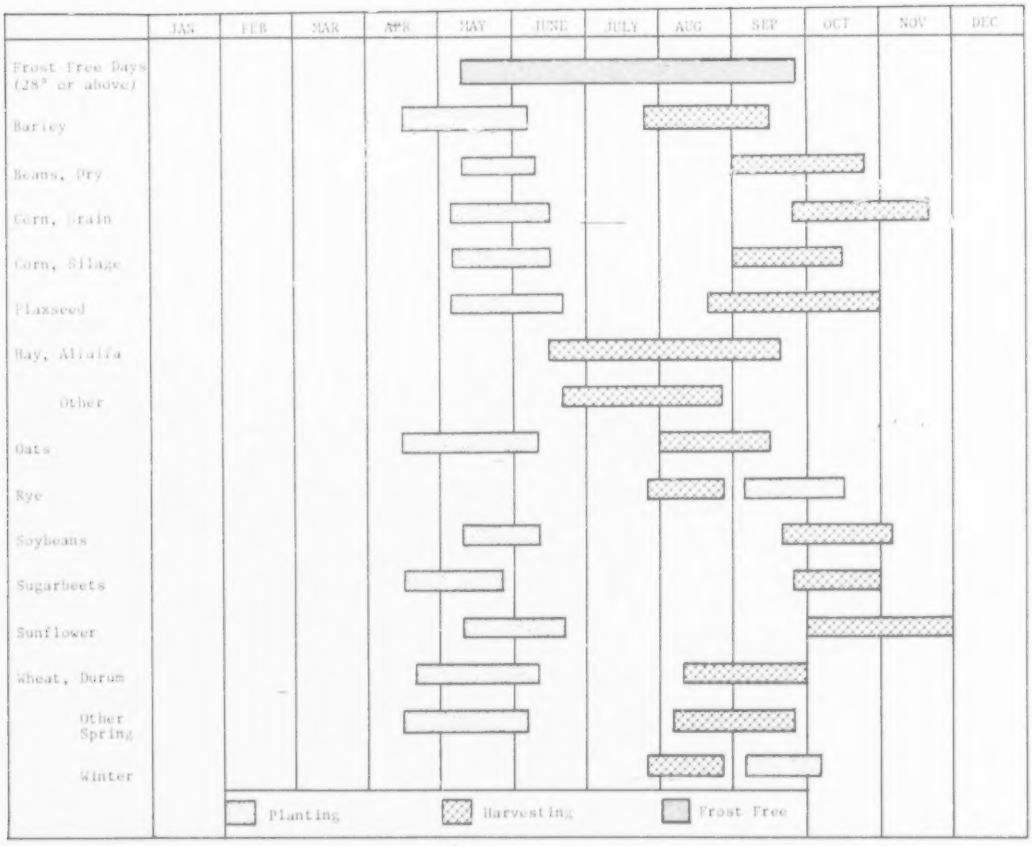
GROWING SEASON PRECIPITATION
North Dakota, April-September, 1951-80 Avg.



Average Monthly Precipitation
In North Dakota



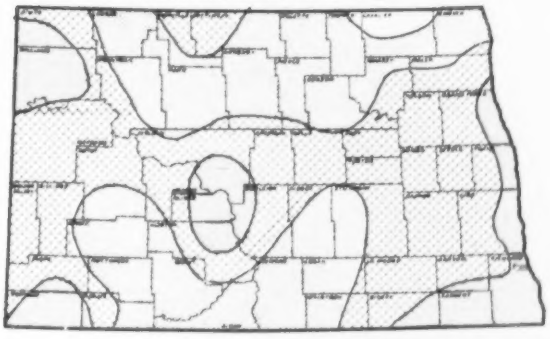
CROP CALENDAR, NORTH DAKOTA



SOURCE: Usual Planting and Harvesting Dates for U.S. Field Crops, USDA NASS April 1984

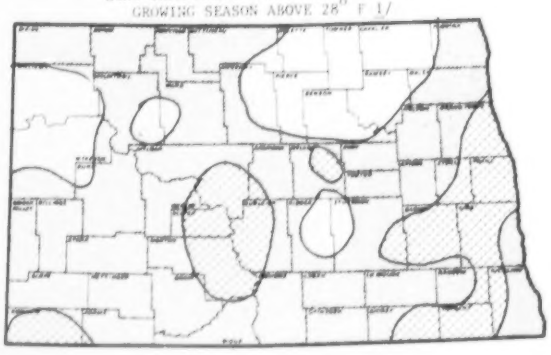
GROWING SEASON

LONG-TERM AVERAGE NUMBER OF DAYS IN GROWING SEASON ABOVE 32° F 1/



Under 110 days
110 - 119 days
120 - 129 days
130 days & over

LONG-TERM AVERAGE NUMBER OF DAYS IN GROWING SEASON ABOVE 28° F 1/



Under 130 days
130 - 139 days
140 - 149 days
150 days & over

LENGTH OF GROWING SEASON, SELECTED STATIONS, NORTH DAKOTA, AT TEMPERATURES OF 28°F AND 32°F OR ABOVE

Station	County	Average Date of Last Spring Frost		Average Date of First Frost in Fall		Average Number of Days in Growing Season		Number of Years in Average
		28°	32°	32°	28°	32°	28°	
		(Date)	(Date)	(Date)	(Date)	(Days)	(Days)	(Years)
NORTHWEST DISTRICT								
Crosby	Divide	May 10	May 18	Sept. 16	Sept. 23	120	137	63
Minot Exp.	Ward	May 12	May 20	Sept. 17	Sept. 26	119	137	69
Mohall	Renville	May 11	May 18	Sept. 16	Sept. 23	122	135	44
Parshall	Mountrail	May 15	May 21	Sept. 12	Sept. 18	114	126	59
Powers Lake	Burke	May 15	May 23	Sept. 11	Sept. 23	111	133	41
Williston	Williams	May 4	May 13	Sept. 22	Sept. 28	132	146	78
NORTH CENTRAL DISTRICT								
Bottineau	Bottineau	May 15	May 21	Sept. 15	Sept. 23	116	130	70
Granville	McHenry	May 13	May 19	Sept. 15	Sept. 25	119	134	65
Maddock	Benson	May 15	May 23	Sept. 13	Sept. 21	113	129	53
Towner	McHenry	May 14	May 21	Sept. 12	Sept. 21	114	129	54
NORTHEAST DISTRICT								
Grafton	Walsh	May 9	May 18	Sept. 19	Sept. 25	123	139	70
Grand Forks	Grand Forks	May 6	May 16	Sept. 23	Sept. 29	130	146	66
Hansboro	Towner	May 17	May 27	Sept. 11	Sept. 18	106	134	65
Langdon Exp.	Cavalier	May 17	May 28	Sept. 13	Sept. 21	109	126	69
Pembina	Pembina	May 12	May 21	Sept. 17	Sept. 25	119	135	70
WEST CENTRAL DISTRICT								
Dunn Center	Dunn	May 12	May 17	Sept. 18	Sept. 27	122	137	50
Garrison	McLean	May 8	May 18	Sept. 19	Sept. 25	124	139	62
Washburn	McLean	May 6	May 13	Sept. 24	Oct. 1	137	148	26
Watford City	McKenzie	May 7	May 13	Sept. 19	Sept. 27	127	141	34
CENTRAL DISTRICT								
Fessenden	Wells	May 8	May 17	Sept. 18	Sept. 26	123	140	40
Jamestown	Stutsman	May 5	May 15	Sept. 20	Sept. 29	128	146	73
McClusky	Sheridan	May 11	May 20	Sept. 18	Sept. 26	120	137	54
Pettibone	Kidder	May 13	May 22	Sept. 12	Sept. 17	111	124	46
EAST CENTRAL DISTRICT								
Amenia	Cass	May 6	May 15	Sept. 23	Sept. 28	130	144	73
Cooperstown	Griggs	May 11	May 21	Sept. 19	Sept. 26	121	138	49
Fargo	Cass	May 4	May 12	Sept. 26	Oct. 2	137	151	66
Mayville	Traill	May 8	May 17	Sept. 24	Oct. 2	129	147	57
SOUTHWEST DISTRICT								
Beach	Golden Valley	May 12	May 20	Sept. 18	Sept. 27	121	138	58
Bowman	Bowman	May 6	May 14	Sept. 21	Sept. 30	130	146	52
Dickinson Exp.	Stark	May 12	May 19	Sept. 14	Sept. 22	117	132	72
Hettinger	Adams	May 11	May 18	Sept. 20	Sept. 27	124	137	36
Marmarth	Slope	May 11	May 16	Sept. 15	Sept. 23	122	136	43
SOUTH CENTRAL DISTRICT								
Carson #2	Grant	May 11	May 19	Sept. 15	Sept. 24	119	135	59
Mandan Exp.	Morton	May 7	May 12	Sept. 23	Sept. 28	133	144	59
SOUTHEAST DISTRICT								
Edgeley Exp.	LaMoure	May 11	May 18	Sept. 19	Sept. 28	123	139	66
Lisbon	Ransom	May 10	May 19	Sept. 20	Sept. 27	123	139	64
McLeod	Ransom	May 9	May 15	Sept. 22	Sept. 29	129	143	62
Napoleon	Logan	May 14	May 21	Sept. 16	Sept. 23	118	132	72
Oakes	Dickey	May 5	May 13	Sept. 23	Oct. 1	133	149	46
Wahpeton	Richland	May 4	May 13	Sept. 25	Oct. 3	136	151	65

1/ Based on data for selected stations. Number of years used in average ranges by station from 26-78 years.
Source: National Climatic Data Center.

WEATHER DATA

AVERAGE TEMPERATURE BY MONTHS, NORTH DAKOTA, 1988

Districts and Stations	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
	- - - - - - Degrees Fahrenheit - - - - - -												
Bowbells	6.0	11.6	27.2	42.9	57.9	72.0	68.1	65.7	52.3	40.5	25.3	11.5	40.1
Crosby	8.9	15.2	32.1	46.1	61.0	76.6	72.4	69.3	55.7	44.0	26.7	14.8	43.6
Fortuna	5.9	10.3	29.1	41.4	58.9	74.0	69.1	65.8	52.3	40.8	24.2	13.0	42.2
Kenmare	7.1	12.1	28.8	43.3	58.3	74.0	69.7	67.5	54.9	42.5	26.3	14.9	41.6
Minot Exp. Station	7.2	11.8	28.1	43.5	59.5	75.0	70.9	68.5	54.5	43.0	27.7	15.6	42.1
Mohall	6.0	10.1	27.2	42.6	58.8	73.6	70.0	67.2	54.8	41.3	26.2	13.4	40.9
Powers Lake	4.9	12.3	28.6	42.8	59.1	72.7	69.2	66.0	52.8	40.8	23.8	12.3	40.5
Williston WSO AP	7.6	15.1	33.2	45.3	61.6	77.3	72.9	69.3	55.7	44.2	27.7	17.1	43.9
NORTHWEST	7.3	12.7	29.7	43.8	59.6	74.8	70.6	67.8	54.5	42.7	26.4	14.7	42.1
Bottineau	3.5	7.2	26.5	42.4	58.6	73.5	70.0	67.9	54.4	40.2	24.7	12.3	40.1
Drake	8.0	13.7	29.8	46.5	62.2	76.0	73.7	70.3	56.8	43.4	26.8	15.1	43.5
Granville	7.3	13.1	29.1	44.6	60.3	76.0	72.3	69.8	56.1	44.0	28.0	15.4	45.9
Leeds	3.6	8.3	26.6	40.9	59.8	72.8	70.7	67.8	54.4	41.6	25.5	12.3	40.4
Rolla	3.8	7.7	24.7	40.0	57.1	71.4	69.4	67.4	53.9	40.8	23.9	12.8	39.4
Rugby	5.8	11.9	28.9	45.3	61.7	76.9	72.7	70.0	55.6	41.4	25.7	12.5	42.3
Upham	3.5	8.8	M	42.9	59.8	74.3	69.9	67.9	54.5	40.7	24.8	11.9	40.5
Westhope	4.9	11.3	28.3	45.2	60.3	74.9	70.5	68.3	55.1	41.5	24.6	11.3	41.4
Willow City	2.9	7.0	25.2	40.9	58.5	73.3	68.9	67.1	53.4	39.8	23.8	11.3	39.3
NORTH CENTRAL	4.7	9.8	27.4	43.1	59.5	74.0	70.6	68.6	54.6	41.3	25.4	13.0	41.0
Devils Lake	5.8	9.3	28.3	44.5	61.5	73.1	72.5	69.3	56.1	43.0	26.5	14.1	42.0
Edmore	3.3	7.5	27.1	43.1	M	72.5	M	68.7	55.1	40.6	23.4	10.9	40.4
Grafton	4.7	9.8	28.4	45.2	63.2	75.2	74.1	72.2	58.0	43.1	26.4	14.1	42.9
Grand Forks FAA AP	3.3	7.9	27.2	43.6	61.4	71.4	71.4	69.3	56.3	40.8	26.4	13.4	41.0
Langdon Exp. Farm	0.4	4.0	23.4	40.0	58.2	71.1	68.8	66.7	52.7	38.1	22.6	9.5	38.0
Park River	4.8	9.0	27.3	45.6	62.1	73.2	73.4	71.3	57.8	44.0	26.7	14.5	42.5
Pembina	-0.4	3.6	24.0	39.9	58.7	71.0	69.5	66.6	52.5	37.6	24.0	9.5	38.0
Petersburg	1.9	4.6	25.0	41.7	58.7	70.2	69.2	67.1	53.6	39.1	23.7	10.0	38.7
NORTHEAST	3.1	7.4	26.6	43.3	60.7	72.5	71.5	69.3	55.6	41.2	25.2	12.3	40.7
Beulah	10.3	15.8	32.6	47.2	62.0	77.5	73.4	72.6	56.7	45.3	30.0	17.6	45.0
Center	9.8	12.6	28.3	43.3	58.4	73.9	71.3	68.4	56.2	44.1	30.3	24.6	45.9
Dunn Center	12.9	16.4	M	47.4	61.9	77.5	74.6	71.5	58.2	46.1	29.9	20.4	45.6
Turtle Lake	7.8	11.8	28.2	43.6	59.5	74.4	71.4	69.5	55.2	42.4	27.3	16.2	42.3
Underwood	10.1	15.6	29.6	46.8	61.7	77.1	73.4	71.5	57.7	45.3	28.9	18.3	44.7
Watford City	8.3	14.8	30.8	44.0	59.4	74.8	71.0	67.7	53.8	41.8	27.7	17.9	42.7
WEST CENTRAL	9.8	14.6	30.7	45.5	60.5	76.0	72.7	70.0	56.4	44.5	29.0	18.6	44.0
Carrington	8.0	10.9	28.3	45.4	61.4	73.1	74.1	68.6	55.9	42.2	24.9	14.9	42.3
Fessenden	7.9	12.9	29.3	46.2	62.6	75.7	74.8	70.9	M	43.9	26.6	16.2	43.6
Hurdsfield	5.7	8.8	25.2	42.0	58.5	72.3	70.9	66.8	53.9	40.7	24.7	14.4	40.3
Jamestown FAA Airport	M	13.6	31.0	45.0	62.6	74.9	76.4	71.7	57.7	43.6	26.8	16.5	43.9
Pettibone	6.5	10.3	27.0	45.6	61.8	75.6	75.7	70.5	57.0	43.2	26.0	14.8	45.3
Tuttle	6.2	9.8	27.9	43.7	61.1	74.0	72.4	68.2	55.0	42.1	26.7	15.7	41.9
CENTRAL	7.2	11.5	28.5	44.9	61.3	74.5	74.0	69.8	56.7	42.8	26.4	15.5	42.8
Casselton Agronomy Farm	4.1	7.6	30.3	44.2	63.4	73.6	75.3	71.1	58.6	43.0	27.6	17.1	45.7
Colgate	3.8	7.0	28.1	43.5	62.6	74.3	75.0	71.7	58.4	43.1	25.7	13.6	44.0
Cooperstown	4.7	9.1	28.7	44.9	62.3	72.8	73.1	69.8	57.4	42.5	26.0	13.6	42.1
Fargo WSO AP	5.9	9.3	29.5	44.5	63.9	73.8	75.8	72.2	58.5	42.9	27.5	15.2	43.3
Hillsboro	2.9	8.0	28.5	44.0	62.7	71.6	72.4	70.0	55.6	41.7	27.3	13.4	41.5
Sharon	3.5	8.5	27.4	44.6	61.2	72.2	71.9	69.1	56.5	42.3	25.5	12.6	41.3
Valley City	3.6	8.7	28.3	42.1	61.2	71.1	71.5	68.9	56.4	41.6	26.8	15.2	41.0
EAST CENTRAL	4.2	7.9	28.7	44.0	62.5	72.8	73.6	70.4	57.3	42.4	26.6	14.4	70.4
Amidon	13.0	18.5	34.3	47.4	60.3	75.7	73.8	70.9	57.4	46.2	33.2	22.2	45.9
Bowman (Courthouse)	14.1	17.9	31.7	44.0	58.1	74.0	71.8	68.7	55.6	44.8	31.3	20.8	44.4
Dickinson Exp. Station	8.9	13.7	29.9	41.5	58.3	75.0	70.8	68.3	54.6	43.5	29.3	18.9	42.7
Fairfield	10.7	15.5	31.0	44.5	59.9	75.9	72.9	69.9	56.0	45.1	29.1	19.0	44.0
Hettinger	13.7	18.3	32.2	44.5	58.5	74.4	70.9	68.7	55.5	44.8	32.4	21.3	44.6
Medora	13.8	20.2	36.3	47.4	62.3	78.6	75.2	72.7	58.4	47.3	32.6	23.1	47.3
Mott	10.9	15.6	30.7	43.1	58.7	73.7	72.0	69.4	55.5	44.0	30.3	20.4	43.7
Richardton (Abbey)	13.4	17.6	32.2	47.1	61.5	76.5	74.5	71.4	57.4	45.7	30.6	21.2	45.8
SOUTHWEST	12.5	17.4	32.6	45.3	60.2	75.6	72.9	70.2	56.5	45.1	30.7	20.6	45.0
Bismarck WSFO AP	8.9	14.9	30.2	45.0	61.0	75.7	73.2	69.5	56.6	43.8	29.0	18.1	43.8
Carson	10.6	14.1	29.0	43.7	59.8	74.4	71.5	69.4	55.3	44.2	30.2	19.4	43.5
Fort Yates	14.6	19.0	34.6	49.6	64.5	79.5	76.7	74.6	60.3	47.8	33.4	23.8	48.2
Moffit	10.5	14.1	30.8	47.4	M	77.9	75.8	72.5	58.4	45.2	29.7	19.4	45.2
New Salem	11.3	15.4	30.7	47.2	61.3	76.7	73.9	70.6	57.2	45.3	29.0	19.7	44.9
Wilton	M	11.4	28.5	43.6	59.5	73.4	71.3	68.5	54.8	42.6	26.8	17.0	42.3
SOUTH CENTRAL	10.5	14.6	30.6	45.7	60.9	76.3	73.5	70.8	56.7	44.5	29.6	19.7	44.5
Ashley	7.8	10.7	30.8	43.2	60.3	74.0	74.0	70.1	55.4	42.4	27.6	17.2	42.8
Ellendale	M	M	M	M	M	M	77.1	73.3	59.6	44.9	28.1	19.3	44.2
Forman	7.3	10.6	31.3	45.0	63.8	75.9	76.3	72.5	58.4	43.1	27.8	17.2	44.1
Fullerton	9.0	13.5	31.5	46.0	63.8	75.1	75.8	72.0	59.2	44.2	27.7	19.1	44.7
Hankinson	6.9	10.6	30.2	44.4	62.6	73.8	74.4	70.9	58.2	42.8	27.3	16.3	43.2
Lisbon	M	5.8	29.9	43.7	59.8	73.7	73.4	70.3	56.3	42.0	27.0	16.7	42.2
McLeod	6.3	10.3	31.7	45.2	64.1	74.5	75.2	72.0	59.0	43.6	27.3	16.8	43.8
Napoleon	7.2	10.0	29.0	43.2	60.1	73.9	72.8	69.4	55.2	42.4	27.7	17.5	42.4
Wahpeton	8.4	12.0	31.4	46.8	65.6	75.6	76.5	73.3	60.5	44.2	28.3	16.9	45.0
Wishek	7.8	10.0	28.9	42.3	58.6	72.5	71.7	68.5	55.1	41.9	27.5	17.2	41.8
SOUTHEAST	7.4	10.2	30.1	44.4	62.0	74.2	74.6	71.0	57.4	43.0	27.4	17.2	43.2
STATE	7.9	13.6	31.1	46.1	62.5	74.2	72.4	68.3	54.9	43.1	27.4	16.2	46.0

Underlined figures are partially estimated. M - Missing. Source: National Climatic Data Center.

WEATHER DATA

MONTHLY PRECIPITATION, NORTH DAKOTA, 1988

Districts and Stations	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
	- - - - - - - Inches - - - - -												
Crosby	.14	.17	.54	.14	2.36	2.24	1.51	1.22	1.34	.17	.29	.97	11.09
Foxholm	.72	.04	.98	.23	2.34	1.60	1.96	.52	2.05	.15	.82	1.07	12.48
Grenora	.12	.23	.36	.07	1.29	3.65	.69	1.05	1.55	.52	.29	.91	10.73
Kenmare	.74	.07	.87	.19	1.95	1.88	1.97	.11	1.57	.19	1.06	.84	11.44
Minot Exp. Station	.87	.11	1.34	.09	1.47	1.89	1.66	.56	1.13	.15	.95	1.19	11.41
Mohall	.75	.22	1.39	.25	2.72	1.62	2.72	.55	2.24	.38	.90	1.17	14.91
Powers Lake	.56	.15	.67	.43	1.98	2.91	2.55	.23	1.68	.26	1.05	.51	12.98
Stanley	.67	.12	.81	.80	2.67	2.30	1.61	.28	2.27	.38	.69	1.09	13.69
Williston WSO AP	.75	.28	.63	.15	1.39	3.46	.52	.39	1.49	.28	.51	.79	10.64
NORTHWEST	.58	.16	.81	.24	2.04	2.46	1.64	.64	1.68	.29	.65	.80	11.99
Bottineau	.28	.09	1.11	.14	2.39	1.39	2.34	1.36	2.52	.26	1.23	.60	13.71
Drake	.20	.04	1.00	.00	1.68	1.63	.47	.72	.78	.14	.77	.72	8.15
Granville	.55	.05	1.43	.50	1.47	1.95	.47	.63	1.65	.08	1.07	.98	10.83
Leeds	.35	.00	.70	.14	.80	1.54	2.64	1.33	.65	.35	.97	.70	10.17
Rolla	.75	.36	.78	.24	1.47	1.10	.85	1.18	2.49	.35	.84	.82	11.23
Rugby	.00	M	.53	.17	.94	1.44	.80	1.11	1.97	.22	1.10	.66	9.02
Upham	.51	.10	M	.08	1.76	1.35	3.54	1.18	1.67	.24	1.27	.99	13.70
Westhope	.21	T	1.23	.17	1.64	2.06	2.26	1.77	2.29	.17	1.28	.67	13.75
Willow City	.50	.06	1.27	.30	1.34	1.15	1.08	2.30	2.08	.29	1.42	.78	12.57
NORTH CENTRAL	.44	.08	1.01	.21	1.43	1.53	1.57	1.28	1.74	.25	.99	.81	11.34
Devils Lake	.92	.20	1.72	.05	1.88	3.68	2.85	1.51	.56	.44	.89	.75	15.45
Edmore	.39	.07	.95	.00	M	.59	M	2.12	.47	.33	.68	.58	11.05
Grafton	.45	.30	1.78	T	3.98	.66	1.73	.93	.69	.30	.62	1.50	12.94
Grand Forks FAA AP	.87	.15	.91	.00	1.67	1.34	3.73	1.14	2.00	.30	.68	1.96	14.95
Langdon Exp. Station	.44	.06	.47	.00	.97	.52	2.35	1.24	1.17	.38	.56	.45	8.61
Park River	.92	.08	1.96	T	3.84	1.32	1.09	2.09	.70	.25	.77	1.29	14.41
Pembina	.32	.11	.89	.00	1.55	.81	2.90	1.30	1.04	.37	.68	.78	10.75
Petersburg	.64	.07	.51	.00	2.32	1.16	3.31	1.41	1.32	.37	.61	.71	12.43
NORTHEAST	.63	.17	1.05	.02	2.08	1.27	2.79	1.39	1.25	.36	.66	.96	12.63
Beulah	.30	.20	1.80	.00	2.24	2.58	1.13	T	1.60	.28	.71	.85	11.67
Butte	M	T	.93	T	1.47	2.73	.33	.16	.79	.04	.68	.93	8.58
Center	.27	.00	.85	.03	1.19	.60	1.94	.51	.63	.63	.41	M	7.83
Dunn Center	.62	.26	M	.01	2.03	1.33	.97	.43	1.52	.18	.25	.74	8.70
Max	.63	.10	.96	.00	1.22	1.74	1.14	.35	2.44	.18	.95	.68	8.91
Turtle Lake	.55	.12	1.13	.02	1.53	2.12	.64	.11	.58	.07	.58	1.00	8.45
Underwood	.78	.11	.85	.02	1.73	2.40	.67	.17	.87	.20	.60	.93	9.03
Washburn	.70	.21	.91	.08	1.70	1.30	2.27	.30	1.44	.23	.61	.76	9.53
WEST CENTRAL	.54	.20	.89	.04	1.76	1.94	1.07	.23	1.02	.24	.49	.77	9.18
Carrington	1.70	.10	1.44	.40	.61	1.23	.48	1.28	.35	.40	.86	.29	10.04
Fessenden	.51	.20	.34	.00	.84	1.82	.66	1.24	.22	.02	.55	.49	6.89
Hurdsfield	.40	.10	.48	.02	1.73	1.48	1.14	2.61	.59	.18	.54	.16	9.77
Jamestown FAA AP	M	.02	.42	.01	.80	1.91	1.58	1.31	2.61	.26	.65	.91	11.38
Pettibone	1.11	M	1.15	.30	1.89	.76	.30	2.38	.73	.13	.81	.59	10.25
Tuttle	.71	.19	.75	.12	1.21	.95	.84	2.82	.78	.07	.42	.49	9.35
CENTRAL	.91	.10	1.05	.15	1.25	1.48	.97	1.79	1.15	.13	.67	.87	10.52
Casselton Agronomy Farm	1.80	.46	.31	.90	1.47	1.35	.64	2.06	3.04	.32	1.28	.11	13.74
Colgate	.38	.18	.34	.00	.35	1.34	1.24	2.45	2.31	.28	.65	.67	10.79
Cooperstown	1.12	.02	1.08	.10	2.90	1.33	1.93	4.11	1.42	.15	.71	1.00	15.86
Fargo WSO AP	1.62	.22	1.02	.01	1.82	1.24	.46	2.14	3.22	.49	1.18	1.11	14.53
Hillsboro	.96	.16	.69	.29	1.65	2.84	1.01	1.71	2.29	.19	.82	1.29	13.90
Sharon	1.39	.14	1.97	.07	2.01	3.20	3.74	2.97	1.47	.35	.66	1.66	19.63
Valley City	1.37	.29	.33	.25	2.17	2.31	1.03	2.66	2.66	.24	.96	.78	15.05
EAST CENTRAL	1.21	.21	.82	.23	1.85	1.94	1.43	2.59	2.34	.29	.89	1.10	14.90
Amidon	.34	.27	.54	.00	2.67	2.02	.85	.76	1.12	.18	.22	.32	9.29
Bowman (Courthouse)	.33	.57	.33	.03	2.81	1.58	.60	.72	.58	.28	.15	.73	8.71
Dickinson Exp. Station	.71	.38	.87	.00	2.18	1.45	1.72	.15	.82	.24	.19	.49	9.20
Fairfield	.63	.30	.74	T	1.64	1.79	.85	.15	.81	.13	.27	.60	7.91
Hettinger	.29	.62	.91	T	2.53	2.27	1.55	.70	.97	.20	.05	.48	10.57
Medora	.67	.58	.55	T	2.26	1.49	1.23	.16	1.04	.53	.29	.45	9.25
Mott	.54	.48	.74	.04	3.26	2.35	1.43	1.23	.76	.07	.01	.77	11.68
Richardton (Abbey)	.58	.36	1.00	T	2.96	1.13	1.93	.17	1.06	.22	.30	.65	10.37
SOUTHWEST	.53	.47	.68	.02	2.33	1.61	1.15	.44	.88	.21	.21	.62	9.15
Bismarck WSFO AP	.68	.40	.92	.12	1.16	2.18	.55	2.19	.63	.15	.48	.71	10.17
Carson	.23	.38	.46	.16	1.25	2.95	.93	1.04	1.08	.12	.20	.78	9.58
Fort Yates	.32	.15	.65	.17	1.43	5.32	.07	.54	.62	T	.47	.83	10.57
Moffit	.27	.11	.38	.01	M	1.48	.47	.99	.72	.26	.76	.78	7.90
New Salem	.76	.49	.61	.51	1.59	2.41	.84	2.16	1.12	.13	.33	.98	11.93
Pretty Rock	.42	.30	1.07	.06	2.06	3.30	.12	.96	.75	.16	.10	.50	9.80
Wilton	M	.22	1.08	.02	.82	.69	2.08	1.05	.58	.27	.54	.87	8.71
SOUTH CENTRAL	.49	.32	.67	.25	1.67	2.47	.90	1.79	.80	.17	.39	.79	10.71
Ashley	.33	.15	.09	T	2.45	1.74	.38	1.57	2.77	.30	.61	.83	11.22
Ellendale	M	M	M	M	M	M	.94	2.86	4.19	.36	1.11	.87	15.69
Forman	.51	.12	.67	.03	2.46	1.62	1.70	2.06	5.68	.33	.99	1.11	17.28
Fullerton	1.04	.18	.71	.06	2.45	1.11	.72	2.42	2.95	.28	.98	.61	13.51
Hankinson	1.03	.37	.61	.91	3.74	1.17	3.45	3.40	3.91	.56	3.09	.75	22.99
Lisbon	.49	.11	.36	.00	1.28	1.03	3.90	1.20	3.68	.44	.81	.62	13.92
McLeod	1.23	.12	.62	.35	4.60	1.76	3.83	2.70	2.49	.24	.69	.98	19.61
Napoleon	.92	.13	.40	.03	1.14	.93	.52	3.27	1.78	.54	.79	.85	11.30
Wahpeton	.27	.01	.52	.87	3.05	2.13	4.69	2.84	4.55	.57	.99	.63	21.12
Wishek	M	.00	M	.03	1.92	1.65	.60	2.30	2.30	.41	1.23	1.04	12.78
SOUTHEAST	.75	.14	.55	.16	2.27	1.49	1.61	2.40	3.11	.34	.87	.75	14.44
STATE	.68	.21	.84	.15	1.85	1.80	1.46	1.39	1.55	.25	0.65	.83	11.65

Underlined figures are partially estimated. M - Missing. T - Trace. Source: National Climatic Data Center.

WEATHER DATA

LONG-TERM PRECIPITATION BY MONTHS AND STATIONS
North Dakota, 1951-80 (Inches)

District and Station	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
Crosby	.60	.59	.63	1.30	2.00	2.71	2.06	1.99	1.28	.86	.60	.63	14.71
Foxholm	.66	.60	.67	1.56	2.12	3.49	1.98	2.06	1.39	.81	.66	.65	16.46
Grenora	.64	.61	.66	1.28	2.06	2.93	2.12	1.79	1.40	.75	.61	.63	14.59
Kenmare	.53	.68	.80	1.66	2.11	3.40	1.85	1.89	1.81	.81	.61	.66	15.66
Minot Exp. Station	.58	.55	.61	1.40	2.25	3.13	2.18	2.02	1.48	.87	.79	.56	17.19
Mohall	.64	.60	.62	1.35	2.24	3.36	2.22	2.29	1.82	.98	.61	.60	18.39
Parshall	.56	.55	.62	1.39	2.26	3.66	2.16	1.98	2.01	.73	.59	.59	16.93
Powers Lake	.65	.55	.69	1.31	2.07	3.14	2.14	1.85	1.45	.82	.57	.63	15.38
Williston WSO	.55	.50	.57	1.29	1.85	2.68	1.83	1.62	1.37	.74	.50	.55	13.45
NORTHWEST	.57	.56	.63	1.43	2.16	3.13	2.09	1.96	1.51	.81	.63	.61	15.73
Bottineau	.62	.61	.58	1.31	2.15	3.31	2.80	2.67	1.98	1.01	.65	.69	17.78
Drake	.62	.55	.66	1.62	2.58	3.49	2.71	2.12	1.80	1.01	.72	.62	17.89
Granville	.61	.62	.61	1.55	2.47	3.30	1.95	2.62	1.79	.85	.68	.69	18.38
Leeds	.73	.66	.87	1.63	2.58	3.28	2.47	2.17	1.61	.98	.61	.48	17.51
Rolla	.71	.69	.66	1.70	2.73	3.66	2.82	2.92	1.92	.96	.73	.69	19.11
Rugby	.59	.63	.64	1.69	1.93	3.16	2.58	2.61	1.79	.99	.58	.67	18.86
Upham	.69	.71	.69	1.96	2.11	3.08	2.15	2.61	1.77	.98	.68	.68	18.98
Westhope	.67	.58	.62	1.59	1.8	3.04	2.13	2.31	1.86	.90	.63	.63	17.66
Willow City	.66	.58	.63	1.66	1.84	2.88	2.15	2.1	1.72	.92	.68	.71	17.43
NORTH CENTRAL	.63	.61	.61	1.63	2.11	3.19	2.29	2.31	1.82	.94	.65	.65	18.83
Devils Lake	.70	.69	.76	1.90	2.18	3.30	2.21	2.11	1.88	.98	.68	.75	19.34
Edmore	.65	.60	.68	1.58	2.20	2.99	2.50	2.32	1.68	1.02	.69	.73	18.76
Grafton	.74	.64	.74	1.52	2.19	3.25	2.54	2.58	2.14	1.28	.89	.91	20.68
Grand Forks FAA AP	.76	.71	.77	1.52	1.95	2.89	2.38	2.62	2.04	1.21	.84	.94	19.03
Hannah	.66	.63	.66	1.53	2.22	3.05	2.08	2.41	2.03	1.03	.69	.65	17.64
Langdon Exp. Farm	.59	.62	.72	1.33	2.44	2.97	2.49	2.38	1.91	1.03	.65	.71	19.23
Park River	.62	.56	.69	1.70	2.30	3.60	2.99	2.51	2.02	1.09	.68	.67	20.23
Pembina	.60	.61	.69	1.53	2.62	2.96	2.48	2.60	2.14	1.09	.65	.71	19.68
Petersburg	.70	.76	.78	1.62	2.14	3.32	2.51	2.54	2.04	1.24	.82	.84	19.51
NORTHEAST	.65	.61	.71	1.53	2.24	3.13	2.47	2.45	2.00	1.09	.69	.72	18.71
Butte	.62	.59	.54	1.41	1.8	3.17	2.32	1.8	1.37	.78	.63	.73	17.51
Center	.61	.54	.73	1.64	2.62	3.34	2.58	1.94	1.63	.91	.65	.74	19.34
Dunn Center	.60	.58	.60	1.60	2.35	3.09	2.37	2.00	1.49	.87	.63	.74	18.24
Garrison	.61	.58	.57	1.62	1.89	3.03	2.31	2.18	1.68	.88	.62	.68	18.05
Max	.62	.54	.65	1.70	2.17	3.27	2.66	2.18	1.91	.93	.62	.67	19.25
Turtle Lake	.61	.57	.69	1.64	2.31	3.35	2.31	2.38	1.76	.89	.63	.68	19.22
Wilton	.67	.59	.73	1.73	2.54	3.47	2.63	2.28	1.85	.91	.66	.71	19.47
WEST CENTRAL	.62	.58	.66	1.62	2.28	3.30	2.42	2.01	1.71	.89	.64	.71	18.74
Carrington	.61	.59	.73	1.74	2.61	3.33	2.24	2.12	1.69	.95	.69	.73	19.14
Fessenden	.61	.54	.74	1.68	2.69	3.24	2.29	2.34	1.79	.91	.68	.71	19.19
Jamestown FAA Airport	.60	.58	.74	1.52	2.32	3.14	2.50	2.13	1.61	.86	.62	.71	18.53
Medina	.72	.66	.80	1.61	2.16	3.44	2.65	2.03	1.66	.98	.62	.71	19.63
Pettibone	.61	.62	.74	1.68	2.37	3.44	2.62	2.04	1.72	.94	.66	.78	19.62
Tuttle	.60	.55	.62	1.58	2.45	3.35	2.50	2.20	1.77	.93	.62	.68	19.41
CENTRAL	.63	.63	.74	1.71	2.38	3.42	2.63	2.17	1.72	.94	.65	.73	19.55
Colgate	.60	.57	.80	1.78	2.70	3.34	2.56	2.62	2.02	1.12	.83	.88	20.54
Cooperstown	.71	.67	.79	1.68	2.47	3.37	3.05	2.66	2.08	1.21	.83	.94	21.47
Fargo WSO	.71	.72	.85	1.64	2.24	3.06	2.34	2.65	2.01	1.29	.93	.97	20.61
Hillsboro	.63	.59	.73	1.71	2.61	3.23	2.82	2.68	2.10	1.25	.85	.93	20.53
Mayville	.65	.59	.82	1.76	2.64	3.26	2.68	2.71	2.02	1.23	.88	.95	21.39
Sharon	.72	.62	.85	1.64	2.16	3.43	2.91	2.59	2.04	1.21	.91	.96	21.04
Valley City	.69	.64	.71	1.61	2.35	3.52	2.74	2.38	1.97	1.16	.84	.91	20.21
EAST CENTRAL	.67	.63	.76	1.69	2.37	3.38	2.66	2.58	2.02	1.20	.85	.92	20.53
Amidon	.37	.37	.54	1.53	2.54	3.85	2.23	1.54	1.41	.73	.52	.54	17.57
Bowman	.43	.42	.52	1.67	2.43	3.68	2.11	1.82	1.61	.79	.56	.61	17.81
Dickinson Exp. Station	.36	.40	.57	1.73	2.53	3.60	2.09	1.89	1.53	.78	.58	.56	18.03
Fairfield	.36	.35	.58	1.66	2.45	3.48	1.91	1.86	1.64	.79	.58	.61	17.01
Hettinger	.31	.33	.49	1.68	2.76	3.64	2.04	1.73	1.47	.78	.52	.57	17.52
Medora	.43	.42	.57	1.61	2.60	3.53	1.8	1.62	1.60	.81	.58	.58	17.75
Mott	.34	.40	.57	1.65	2.52	3.80	1.93	1.86	1.62	.81	.58	.56	18.04
Richardton	.47	.54	.76	1.81	2.77	3.38	2.30	1.81	1.7	.93	.68	.64	19.00
SOUTHWEST	.39	.43	.58	1.68	2.68	3.62	2.09	1.84	1.64	.82	.58	.58	18.48
Bismarck WSO	.51	.47	.70	1.51	2.23	3.61	2.55	1.69	1.48	.91	.61	.73	19.39
Carson	.33	.40	.60	1.85	2.68	3.62	2.39	1.84	1.38	.82	.58	.58	18.47
Fort Yates	.33	.36	.58	1.75	2.32	2.80	1.73	1.61	1.33	.83	.54	.57	16.11
Linton	.51	.45	.79	1.85	2.57	3.56	2.33	1.62	1.70	.91	.67	.74	19.25
New Salem	.47	.48	.72	1.70	2.34	3.62	2.61	2.18	1.68	.88	.66	.73	19.47
Shields	.33	.36	.66	1.70	2.14	3.15	2.05	1.62	1.52	.85	.63	.71	17.68
SOUTH CENTRAL	.41	.40	.61	1.68	2.40	3.42	2.28	1.89	1.60	.85	.60	.68	18.21
Ashley	.57	.58	.70	1.71	2.60	3.61	2.71	2.04	1.74	.97	.66	.78	19.27
Edgeley	.45	.52	.69	2.16	3.04	4.01	2.74	2.07	1.84	1.15	.77	.84	19.68
Forman	.53	.51	.67	2.03	2.70	3.78	2.71	2.23	1.82	1.14	.74	.78	19.41
Fullerton	.62	.56	.86	2.29	2.95	3.80	2.56	2.26	1.88	1.26	.76	.79	20.83
Hankinson P.P. Station	.52	.57	.78	2.05	2.62	4.03	2.74	2.23	1.8	1.19	.73	.83	20.30
Lisbon	.47	.47	.77	1.98	2.61	3.41	2.73	2.08	1.83	1.13	.69	.74	20.05
McLeod	.48	.48	.73	1.56	2.40	3.44	1.9	1.91	1.82	1.11	.7	.73	19.27
Napoleon	.45	.44	.76	1.73	2.57	3.19	2.88	2.09	1.7	.97	.71	.73	19.44
Wahpeton	.62	.63	.79	2.14	2.88	4.09	3.71	2.88	2.3	1.2	.91	.96	22.12
Wishek	.46	.46	.78	1.73	2.64	3.73	2.59	2.14	1.58	.88	.7	.81	19.40
SOUTHEAST	.48	.49	.73	1.93	2.80	3.71	2.76	2.2	1.83	1.11	.82	.88	19.64
STATE	.47	.43	.64	1.55	2.35	3.44	2.43	2.09	1.72	.9	.7	.76	18.6

Source: National Climatic Data Center

WEATHER DATA

LONG-TERM MEAN TEMPERATURES BY MONTHS AND STATIONS,
North Dakota, 1951-80 (Degrees F)

District and Station	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
Crosby	5.0	12.8	23.6	40.8	53.9	62.9	68.7	66.9	56.1	44.7	26.5	13.5	39.6
Foxholm	6.0	13.4	24.1	41.2	54.4	63.5	69.2	67.5	56.8	46.0	28.1	14.5	40.4
Grenora	6.2	14.3	24.8	41.2	53.9	62.9	68.8	67.1	56.2	45.3	27.3	14.7	40.2
Kenmare	4.1	11.4	21.8	39.1	52.7	62.1	68.0	65.8	54.6	43.6	26.3	13.2	38.6
Minot Exp. Station	4.5	11.6	22.5	40.2	53.5	63.0	68.6	66.9	55.7	44.5	26.6	13.3	39.2
Mohall	2.7	10.3	21.8	40.1	53.1	62.6	68.0	66.1	55.0	43.7	26.1	12.0	38.5
Parshall	5.8	13.2	24.4	41.1	53.9	63.0	68.9	67.2	56.2	45.1	27.2	14.3	40.0
Powers Lake	2.4	10.1	20.7	38.3	51.4	60.8	66.6	65.0	53.8	42.5	24.6	11.7	37.3
Williston WSO	6.6	14.6	25.3	41.8	54.5	63.8	70.0	68.1	56.6	45.1	27.6	14.9	40.8
NORTHWEST	5.1	12.3	23.0	40.3	53.3	62.5	68.4	66.5	55.4	44.4	26.5	13.5	39.3
Bottineau	-.2	7.4	19.3	38.9	52.7	62.1	67.4	65.7	54.2	42.9	23.9	9.0	36.9
Drake	3.7	10.6	21.9	40.0	53.7	63.2	69.0	67.2	55.8	44.8	26.5	12.7	39.1
Granville	4.6	12.3	23.6	41.3	54.3	63.5	69.2	67.7	56.7	45.6	27.6	13.3	40.0
Leeds	2.1	9.4	21.4	40.2	53.6	63.4	68.4	66.4	55.4	44.2	25.9	10.9	38.4
Rolla	1.8	9.2	20.1	38.2	52.0	61.4	66.7	64.8	53.7	43.1	24.7	10.2	37.2
Rugby	3.9	11.2	23.0	41.7	55.4	65.0	70.2	68.4	57.1	46.0	27.2	12.6	40.1
Upham	1.5	9.1	21.0	40.4	53.9	63.2	68.4	66.4	55.2	43.8	25.5	10.4	38.2
Westhope	1.5	9.2	21.2	40.2	53.8	62.8	67.8	66.1	55.0	43.9	25.0	10.4	38.1
Willow City	.0	7.5	19.7	39.3	52.7	62.3	67.5	65.2	54.0	42.8	24.4	9.2	37.1
NORTH CENTRAL	2.7	9.9	21.5	40.0	53.6	62.9	68.2	66.3	55.2	44.2	25.8	11.2	38.5
Devils Lake	2.3	9.7	21.7	40.0	53.9	63.6	69.1	67.1	56.0	44.8	26.4	11.2	38.8
Edmore	.2	7.6	20.0	39.0	52.6	62.0	67.0	65.3	54.5	43.1	24.5	9.2	37.1
Grafton	2.2	9.5	22.3	41.2	55.4	64.5	69.3	67.8	57.4	46.0	26.9	10.7	39.4
Grand Forks FAA AP	2.2	9.3	22.1	40.7	54.4	63.9	68.8	66.9	56.2	44.9	26.5	11.1	38.9
Hannah	-1.1	6.0	18.1	37.6	52.0	61.6	66.0	64.0	53.7	42.7	23.6	7.8	36.0
Langdon Exp. Farm	-.5	7.0	19.2	38.3	52.4	61.7	66.4	64.8	54.3	43.1	24.0	8.3	36.6
Park River	3.8	11.0	23.2	41.4	55.5	65.0	70.2	68.4	58.1	46.8	27.8	12.2	40.3
Pembina	-.9	6.2	19.4	39.6	53.8	63.4	68.3	66.1	55.9	44.6	25.5	8.9	37.6
Petersburg	1.3	8.1	20.3	38.8	52.9	62.4	67.4	65.5	54.5	43.4	25.0	9.7	37.4
NORTHEAST	1.4	8.2	21.1	39.8	53.8	63.3	68.2	66.3	55.7	44.5	25.8	10.2	38.2
Butte	5.8	12.7	23.7	41.2	54.6	64.2	70.0	68.4	57.0	45.8	27.6	14.2	40.4
Center	7.4	14.7	25.2	41.4	54.2	63.4	69.	67.7	56.4	45.6	28.4	15.8	40.8
Dunn Center	7.4	14.6	23.9	40.2	53.2	62.6	69.0	67.7	56.3	45.2	28.1	15.9	40.3
Garrison	5.3	12.2	23.0	40.3	53.2	62.7	68.9	67.5	56.0	44.8	27.3	14.4	39.6
Max	4.2	11.1	22.0	39.7	52.9	62.5	68.4	66.4	55.0	43.7	26.0	12.8	38.7
Turtle Lake	6.3	13.6	24.8	41.9	55.0	64.4	70.3	68.8	57.5	46.2	28.0	14.8	41.0
Washburn	7.8	15.6	26.3	42.9	55.5	65.0	70.9	69.4	58.2	47.0	29.5	16.2	42.0
WEST CENTRAL	6.9	14.2	24.7	41.3	54.2	63.5	69.6	68.1	56.8	45.6	28.2	15.5	40.7
Carrington	3.9	10.6	21.9	39.4	52.9	62.6	68.1	66.2	55.2	44.5	26.6	12.4	38.7
Fessenden	5.4	12.6	24.4	41.9	55.1	64.4	69.9	68.3	57.6	46.3	28.0	13.8	40.6
Jamestown FAA Airport	5.4	12.6	24.3	41.4	54.3	64.2	69.9	68.2	56.9	45.6	27.7	13.7	40.4
McClusky	5.5	12.7	24.1	41.3	54.8	64.3	70.3	68.7	57.3	45.6	27.4	13.8	40.5
Pettibone	4.3	11.5	23.4	41.2	54.0	63.6	69.6	68.1	57.0	45.3	27.8	13.0	39.9
Steele	6.5	13.9	25.2	42.4	55.4	64.4	70.1	68.6	57.9	46.7	28.6	14.8	41.2
CENTRAL	5.3	12.1	23.8	41.2	54.4	63.9	69.5	67.9	56.8	45.6	27.5	13.4	40.1
Amenia	5.0	12.4	25.5	43.1	56.5	65.6	70.6	69.2	59.0	47.5	29.0	13.2	41.4
Cooperstown	4.0	11.3	24.0	41.7	55.2	64.5	69.9	68.3	57.5	46.2	27.5	12.5	40.2
Fargo WSO	4.3	11.0	24.0	42.1	55.6	65.2	70.6	68.8	57.8	46.3	28.2	12.7	40.5
Hillsboro	4.7	11.7	24.3	42.5	56.3	65.7	70.9	69.0	58.7	47.2	28.6	13.1	41.1
Mayville	4.3	11.3	24.1	42.2	55.8	65.2	70.2	68.6	58.0	46.8	28.2	13.0	40.6
Sharon	2.8	10.2	22.5	40.5	54.1	63.3	68.3	67.1	56.4	45.3	26.3	11.2	39.0
Valley City	4.9	12.2	24.2	41.4	55.0	64.1	69.4	67.5	56.6	45.6	27.8	13.1	40.2
EAST CENTRAL	4.7	11.5	24.1	41.9	55.5	64.8	70.0	68.4	57.7	46.4	27.9	12.7	40.5
Amidon	12.1	18.8	27.0	41.0	53.0	62.4	69.4	68.4	57.0	46.1	30.0	19.6	42.1
Bowman	12.7	19.1	27.7	41.6	53.6	62.9	69.9	68.4	57.1	46.1	30.0	19.9	42.4
Dickinson Exp. Station	9.3	16.2	25.4	40.5	53.0	62.2	68.6	67.4	55.9	45.0	28.3	17.1	40.7
Hettinger	12.6	19.4	27.8	42.3	54.0	63.5	70.2	68.8	57.2	46.4	30.0	19.5	42.6
Medora	12.0	19.8	28.8	42.9	55.0	64.2	70.6	69.2	57.7	46.2	30.1	19.1	43.0
Mott	10.7	18.1	27.2	41.7	53.8	63.0	69.1	67.6	56.5	45.6	28.8	17.9	41.7
Richardton	10.7	17.9	27.2	42.3	54.8	63.9	70.2	69.0	57.9	46.8	29.8	18.5	42.4
SOUTHWEST	11.2	18.3	27.0	41.6	53.7	63.0	69.6	68.2	56.9	45.8	29.3	18.6	41.9
Bismarck WSO	6.7	14.5	26.0	42.5	54.9	64.3	70.4	68.8	57.3	46.1	28.6	15.4	41.3
Carson	8.1	15.4	25.1	41.0	53.9	63.1	69.7	68.2	56.8	45.5	28.5	16.2	41.0
Fort Yates	10.3	17.4	27.6	43.7	56.4	66.0	72.5	70.8	59.8	48.5	31.4	18.6	43.6
Linton	7.9	15.7	27.3	44.0	56.6	65.9	72.2	70.8	59.3	47.5	29.5	16.0	42.7
Mandan Exp. Station	6.7	13.7	25.0	41.6	54.5	64.0	70.1	68.7	57.2	46.1	28.7	15.4	41.0
New Salem	8.0	15.4	25.5	41.4	54.2	63.5	69.9	68.4	57.3	45.9	28.5	16.2	41.2
SOUTH CENTRAL	8.6	15.6	26.2	42.4	55.0	64.4	70.7	69.2	57.9	46.6	29.3	16.5	41.9
Ashley	7.1	13.8	24.9	41.8	54.2	63.8	69.6	68.2	57.5	46.4	28.6	15.2	40.9
Ellendale	8.2	15.4	27.2	43.8	56.3	65.7	71.4	70.1	59.4	47.8	30.0	16.2	42.6
Forman	6.2	13.6	26.0	43.2	56.2	65.8	71.4	69.8	58.6	47.1	29.6	14.7	41.9
Fullerton	7.2	14.7	26.7	43.6	56.3	65.7	71.3	69.8	58.9	47.5	29.6	15.4	42.2
Hankinson	6.4	12.5	24.5	42.0	55.6	65.5	71.1	69.0	57.8	46.8	29.7	14.9	41.3
Lisbon	7.0	13.8	26.3	43.4	56.1	65.4	70.6	69.0	58.5	47.6	29.8	14.8	41.9
McLeod	6.0	13.1	25.9	43.5	56.7	66.0	71.3	69.6	59.1	47.8	29.4	14.4	41.9
Napoleon	6.1	13.0	24.2	41.6	54.6	64.2	70.2	68.7	57.3	46.0	28.1	14.4	40.7
Wahpeton	6.9	13.7	26.3	44.1	57.6	67.0	72.0	70.1	59.7	48.6	30.5	15.4	42.7
Wishek	4.9	11.4	22.8	40.0	53.0	62.7	68.6	66.8	55.8	44.5	27.0	13.7	39.3
SOUTHEAST	6.6	13.3	25.3	42.5	55.5	65.0	70.7	69.0	58.1	46.8	29.0	14.7	41.4
STATE	5.8	12.9	24.1	41.2	54.3	63.7	69.4	67.8	56.7	45.5	27.7	14.0	40.3

Source: National Climatic Data Center

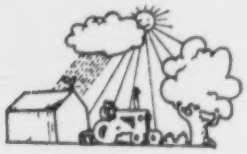
CROPS

NORTH DAKOTA CROP SUMMARY, 1988

THE SEASON IN REVIEW

The average date for beginning spring fieldwork was April 10, the earliest since 1981. A warm, dry spring allowed farmers to complete all small grain planting by June 1 and late season crops a week later. All crops were planted ahead of the 5-year average with most row crops equal to the previous year's record pace.

Higher than normal temperatures June thru July pushed the development of small grains ahead of normal while extreme drought conditions stunted height and growth. Soil moisture supplies were rated mostly very short to short during the entire growing season. The condition of small grains was mostly very poor to fair during the growing season. Harvest conditions were favorable with minimum delays, but yields were off dramatically due to prolonged heat and drought. Small grain harvest was essentially completed by the end of August, 3 weeks ahead of normal.



The hot, dry growing season with mostly inadequate soil moisture also pushed the growth of most late season crops ahead of the average pace and the previous year. Condition of the row crops steadily declined to mostly poor to fair as the hot, dry weather continued throughout the season. All late season crops were harvested more than two weeks ahead of normal.

ACREAGE & PRODUCTION SUMMARY

Total planted acreage of all estimated crops in 1988 was 20.0 million acres, including hay harvested, down 1 percent from 20.2 million the previous year. Total crop output in North Dakota during 1988 dropped 55 percent and was the lowest since 1961. The sharp decline in production was due to unusually hot temperatures and extreme drought conditions.

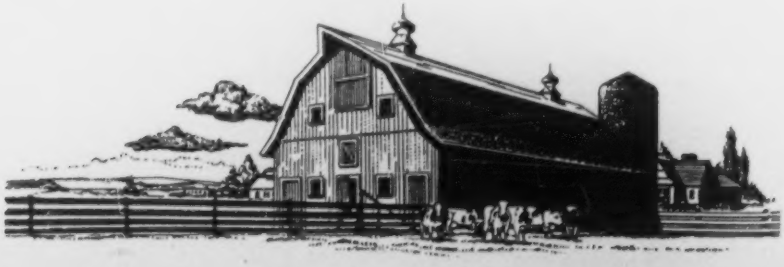
The adverse conditions produced sharply lower yields for all crops and contributed to high abandonment resulting in reduced acres for harvest. All grain crop production was 63 percent less than the 1987 output while oil crop production was down 41 percent from previous year's harvest.

Crops with increased harvested acres were corn for silage, hay other than alfalfa, soybeans, sunflower, sugarbeets and dry edible beans. The corn silage and other hay increase was a result mainly of the drought while the increase for the other crops was due to increased planted acres.

INDEX OF CROP PRODUCTION - NORTH DAKOTA
1979-88 (1967=100)

Year	Food Grains Feed	All	Oil Crops	Misc. 1/	Hay	All Crops
1979	139	94	125	586	213	125	164
1980	98	56	86	274	213	54	104
1981	179	131	165	406	308	104	184
1982	178	133	164	497	244	119	188
1983	107	140	117	388	223	108	143
1984	156	173	162	433	247	108	180
1985	177	193	182	351	276	91	189
1986	161	191	170	359	319	131	189
1987	148	160	152	360	347	116	176
1988	57	53	56	214	238	48	79

1/ Non-oil sunflower, potatoes, sugarbeets, dry edible beans, alfalfa seed.



PRINCIPAL CROPS: NORTH DAKOTA AND UNITED STATES

Crop	Acreage Planted		Acreage Harvested		Yield per Acre		UNIT	Production	
	1987	1988	1987	1988	1987	1988		1987	1988
	(000)	(000)	(000)	(000)				(000)	(000)
NORTH DAKOTA									
Corn, Grain			500	380	93.0	58.0	Bu.	46,500	22,040
Silage			230	300	7.5	3.0	Tons	1,725	900
All	770	800	730	680			---		
Wheat, Durum	2,900	2,800	2,850	2,400	26.0	13.0	Bu.	74,100	31,200
Spring 1/	6,200	6,200	6,100	4,700	31.0	15.0	Bu.	189,100	70,500
Winter	200	250	185	130	32.0	13.0	Bu.	5,920	1,690
All	9,300	9,250	9,135	7,230	29.5	14.3	Bu.	269,120	103,390
Oats	1,050	1,100	700	400	52.0	18.0	Bu.	36,400	7,200
Barley	3,000	2,600	2,900	2,000	48.0	21.0	Bu.	139,200	42,000
Rye	175	130	165	90	31.0	15.0	Bu.	5,115	1,350
Flaxseed	400	220	395	185	16.5	7.0	Bu.	6,518	1,295
Soybeans	520	750	515	640	32.5	18.0	Bu.	16,738	12,420
Beans, Dry Edible	370	400	359	370	14.0	7.3	Cwt.	5,026	2,701
Sunflower, Oil	1,200	1,350	1,180	1,250	15.2	8.8	Cwt.	17,936	11,000
Non-Oil	200	250	195	240	14.5	9.5	Cwt.	2,828	2,280
All	1,400	1,600	1,375	1,490	15.1	8.9	Cwt.	20,764	13,280
Sugarbeets	163.3	177.8	161.3	175.5	19.6	14.7	Tons	3,161	2,580
Potatoes, Fall	130	130	125	125	185.0	115.0	Cwt.	23,125	14,375
Hay, Alfalfa			1,600	1,000	1.90	0.75	Tons	3,040	750
All Other			1,350	1,800	1.30	0.70	Tons	1,755	1,260
All			2,950	2,800	1.63	0.72	Tons	4,795	2,010
Total Acres 2/	20,228	19,958	19,510	16,236					

Crop	Acreage Planted		Acreage Harvested		Yield per Acre		UNIT	Production	
	1987	1988	1987	1988	1987	1988		1987	1988
	(000)	(000)	(000)	(000)				(000)	(000)
UNITED STATES									
Corn, Grain			59,208	58,164	119.4	84.6	Bu.	7,072,073	4,921,191
Silage			5,829	8,295	14.5	9.5	Tons	84,468	78,925
All	65,704	67,619	65,037	66,459					
Wheat, Durum	3,341	3,336	3,279	2,847	28.2	15.7	Bu.	92,617	44,831
Spring 1/	13,682	13,393	13,334	10,542	33.7	19.5	Bu.	449,687	205,460
Winter	48,811	48,800	39,347	39,785	39.8	39.2	Bu.	1,565,176	1,560,970
All	65,834	65,529	55,960	53,174	37.7	34.1	Bu.	2,107,480	1,811,261
Oats	17,959	13,927	6,925	5,590	54.0	39.1	Bu.	374,000	218,773
Barley	11,046	9,676	10,057	7,535	52.7	38.6	Bu.	529,530	290,505
Rye	2,498	2,444	683	607	29.0	24.8	Bu.	19,818	15,047
Flaxseed	470	275	463	226	16.1	7.1	Bu.	7,444	1,615
Soybeans	57,955	58,870	56,977	57,383	33.7	26.8	Bu.	1,922,762	1,538,666
Beans, Dry Edible	1800.6	1498.4	1688.4	1366.0	15.3	14.1	Cwt.	25,909	19,230
Sunflower, Oil	1,587	1,663	1,563	1,543	14.7	8.8	Cwt.	23,023	13,646
Non-Oil	218	275	212	263	14.4	9.8	Cwt.	3,059	2,578
All	1,805	1,938	1,775	1,806	14.7	9.0	Cwt.	26,082	16,224
Sugarbeets	1266.7	1326.8	1252.4	1300.6	22.4	19.1	Tons	28,072	24,794
Potatoes, Fall	1104.2	1078.9	1086.5	1059.5	315.0	290.0	Cwt.	342,471	307,181
Hay, Alfalfa			25,535	26,695	3.32	2.60	Tons	84,794	69,282
All Other			35,213	38,864	1.83	1.48	Tons	64,508	57,535
All			60,748	65,559	2.46	1.93	Tons	149,302	126,817
Total Acres 2/	288,193	284,930	262,625	262,069					

1/ Spring Wheat other than Durum. 2/ Planted acres include harvested for hay.

HISTORIC ESTIMATES, PRINCIPAL CROPS, NORTH DAKOTA, 1979-1988

Crop	Year	Acreage		Unit	Production		Marketing Year Avg. Price	Value of Production	Value per Harvested Acre
		Planted	Harvested		Yield Per Acre	Total			
		(000)				(000)	($/Unit)	(000 Dols.)	(Dols.)
All Wheat	1979	9,900	9,600	Bu.	26.3	252,235	3.89	981,194	102.21
	1980	11,735	9,620	Bu.	18.7	179,650	4.52	812,018	84.41
	1981	11,825	11,570	Bu.	28.4	328,260	3.58	1,175,171	101.57
	1982	10,525	10,300	Bu.	31.5	324,835	3.48	1,133,906	110.09
	1983	7,370	7,205	Bu.	26.9	194,130	3.78	733,811	101.85
	1984	8,820	8,660	Bu.	32.8	284,190	3.57	1,014,558	117.15
	1985	9,350	8,870	Bu.	36.4	323,255	3.26	1,053,977	118.82
	1986	9,620	9,380	Bu.	31.2	292,320	2.54	742,835	79.19
	1987	9,300	9,135	Bu.	29.5	269,120	2.95	794,146	86.93
	1988	9,250	7,230	Bu.	14.3	103,390	4.15	429,069	59.35
Spring Wheat (Other than Durum)	1979	6,400	6,230	Bu.	26.5	165,095	3.61	595,993	95.67
	1980	7,200	5,700	Bu.	18.5	105,450	4.11	433,400	76.04
	1981	7,200	7,050	Bu.	28.0	197,400	3.63	716,562	101.64
	1982	6,850	6,750	Bu.	31.0	209,250	3.51	734,468	108.81
	1983	5,100	5,000	Bu.	27.0	135,000	3.70	499,500	99.90
	1984	5,450	5,400	Bu.	34.0	183,600	3.51	644,436	119.34
	1985	5,850	5,730	Bu.	37.0	212,010	3.34	708,113	123.58
	1986	6,500	6,400	Bu.	31.0	198,400	2.52	499,968	78.12
	1987	6,200	6,100	Bu.	31.0	189,100	2.80	529,480	86.80
	1988	6,200	4,700	Bu.	15.0	70,500	3.85	271,425	57.75
Durum Wheat	1979	3,330	3,250	Bu.	26.0	84,500	4.41	372,645	114.66
	1980	4,400	3,850	Bu.	19.0	73,150	5.10	373,065	96.90
	1981	4,500	4,410	Bu.	29.0	127,890	3.49	446,336	101.21
	1982	3,500	3,410	Bu.	32.5	110,825	3.42	379,022	111.15
	1983	2,090	2,050	Bu.	26.5	54,325	3.97	215,670	105.20
	1984	2,750	2,710	Bu.	29.0	78,590	3.70	290,783	107.30
	1985	2,750	2,690	Bu.	35.5	95,495	3.16	301,764	112.18
	1986	2,600	2,500	Bu.	32.0	80,000	2.66	212,800	85.12
	1987	2,900	2,850	Bu.	26.0	74,100	3.38	250,458	87.88
	1988	2,800	2,400	Bu.	13.0	31,200	4.85	151,320	63.05
Winter Wheat	1979	170	120	Bu.	22.0	2,640	3.32	8,765	73.04
	1980	135	70	Bu.	15.0	1,050	3.66	3,843	54.90
	1981	125	110	Bu.	27.0	2,970	3.41	10,128	92.07
	1982	175	140	Bu.	34.0	4,760	3.31	15,756	112.54
	1983	180	155	Bu.	31.0	4,805	3.45	16,577	106.95
	1984	620	550	Bu.	40.0	22,000	3.16	69,520	126.40
	1985	750	450	Bu.	35.0	15,750	2.80	44,100	98.00
	1986	520	480	Bu.	29.0	13,920	2.16	30,067	62.64
	1987	200	185	Bu.	32.0	5,920	2.40	14,208	76.80
	1988	250	130	Bu.	13.0	1,690	3.55	6,000	46.15
Oats	1979	1,050	840	Bu.	44.0	36,960	1.17	43,243	51.48
	1980	1,050	450	Bu.	30.0	13,500	1.78	24,030	53.40
	1981	1,200	960	Bu.	46.0	44,160	1.65	72,864	75.90
	1982	1,200	1,050	Bu.	53.0	55,650	1.19	66,224	63.07
	1983	1,500	1,260	Bu.	50.5	63,630	1.37	87,173	69.18
	1984	1,150	980	Bu.	51.0	49,980	1.42	70,972	72.42
	1985	1,175	840	Bu.	53.0	44,520	1.05	46,746	55.65
	1986	1,050	700	Bu.	55.0	38,500	1.20	46,200	66.00
	1987	1,050	700	Bu.	52.0	36,400	1.57	57,148	81.64
	1988	1,100	400	Bu.	18.0	7,200	2.40	17,280	43.20
Barley	1979	1,700	1,650	Bu.	46.0	75,900	2.10	159,390	96.60
	1980	1,850	1,500	Bu.	32.0	48,000	2.68	128,640	85.76
	1981	2,150	2,100	Bu.	48.0	100,800	2.20	221,760	105.60
	1982	2,000	1,950	Bu.	53.0	103,350	1.76	181,896	93.28
	1983	2,600	2,520	Bu.	45.5	114,660	2.20	252,252	100.10
	1984	2,950	2,900	Bu.	53.0	153,700	1.94	298,178	102.82
	1985	3,500	3,350	Bu.	55.0	184,250	1.60	294,800	88.00
	1986	3,600	3,450	Bu.	51.0	175,950	1.37	241,052	69.87
	1987	3,000	2,900	Bu.	48.0	139,200	1.70	236,640	81.60
	1988	2,600	2,000	Bu.	21.0	42,000	3.10	130,200	65.10

HISTORIC ESTIMATES CONT.

Crop	Year	Acreage		Unit	Production		Marketing Year Avg. Price	Value of Production	Value per Harvested Acre
		Planted	Harvested		Yield Per Acre	Total			
		(000)				(000)	($/Unit)	(000 Dols.)	(Dols.)
Rye	1979	150	140	Bu.	28.0	3,920	1.70	6,664	47.60
	1980	70	50	Bu.	21.0	1,050	2.64	2,772	55.44
	1981	75	70	Bu.	31.0	2,170	2.77	6,011	85.87
	1982	80	75	Bu.	32.0	2,400	2.00	4,800	64.00
	1983	140	135	Bu.	32.0	4,320	1.79	7,733	57.28
	1984	155	150	Bu.	36.0	5,400	1.76	9,504	63.36
	1985	100	80	Bu.	33.0	2,640	1.82	4,805	60.06
	1986	135	125	Bu.	34.0	4,250	1.16	4,930	39.44
	1987	175	165	Bu.	31.0	5,115	1.31	6,701	40.61
	1988	130	90	Bu.	15.0	1,350	1.90	2,565	28.50
Flaxseed	1979	480	460	Bu.	13.0	5,980	5.76	34,445	74.88
	1980	330	270	Bu.	10.0	2,700	7.18	19,386	71.80
	1981	330	320	Bu.	12.5	4,000	6.57	26,280	82.13
	1982	460	435	Bu.	13.5	5,873	5.14	30,187	69.40
	1983	410	400	Bu.	11.5	4,600	6.83	31,418	78.55
	1984	400	390	Bu.	12.5	4,875	6.07	29,591	75.87
	1985	460	445	Bu.	13.5	6,008	5.00	30,040	67.51
	1986	575	545	Bu.	17.5	9,538	3.45	32,906	60.38
	1987	400	395	Bu.	16.5	6,518	3.39	22,096	55.94
	1988	220	185	Bu.	7.0	1,295	7.65	9,907	53.55
Sugarbeets	1979	145.3	143.1	Tons	16.1	2,304	34.10	78,566	549.03
	1980	147.6	142.7	Tons	14.1	2,017	46.30	93,387	654.43
	1981	145.6	144.9	Tons	18.6	2,695	20.50	55,248	381.28
	1982	145.7	144.8	Tons	17.1	2,476	35.70	88,393	610.45
	1983	143.1	142.2	Tons	16.9	2,404	35.40	85,102	598.47
	1984	139.8	139.1	Tons	16.6	2,309	37.00	85,433	614.18
	1985	144.8	144.2	Tons	16.8	2,423	35.50	86,017	596.51
	1986	164.8	163.8	Tons	17.9	2,932	39.30	115,228	703.47
	1987	163.3	161.3	Tons	19.6	3,161	43.90	138,768	860.31
	1988	177.8	175.5	Tons	14.7	2,580	---	---	---
Potatoes	1979	121	114	Cwt.	160	18,240	3.25	59,280	520.00
	1980	114	112	Cwt.	140	15,680	6.85	107,408	959.00
	1981	119	115	Cwt.	175	20,125	4.05	81,506	708.75
	1982	122	115	Cwt.	150	17,250	4.35	75,038	652.50
	1983	132	128	Cwt.	160	20,480	4.90	100,352	784.00
	1984	136	133	Cwt.	155	20,615	4.65	95,860	720.75
	1985	145	139	Cwt.	170	23,630	3.20	75,616	544.00
	1986	128	120	Cwt.	180	21,600	4.20	90,720	756.00
	1987	130	125	Cwt.	185	23,125	3.50	80,938	647.50
	1988	130	125	Cwt.	115	14,375	6.20	89,125	713.00
All Dry Edible Beans	1979	110	105	Cwt.	13.5	1,418	22.50	31,905	303.86
	1980	265	255	Cwt.	10.5	2,678	24.70	66,147	259.40
	1981	430	415	Cwt.	11.0	4,565	19.80	90,387	217.80
	1982	300	240	Cwt.	10.5	2,520	11.30	28,476	118.65
	1983	170	160	Cwt.	10.3	1,648	18.70	30,818	192.61
	1984	205	200	Cwt.	12.6	2,520	16.10	40,572	202.86
	1985	260	237	Cwt.	12.7	3,010	14.40	43,344	182.89
	1986	290	280	Cwt.	15.5	4,340	17.60	76,384	272.80
	1987	370	359	Cwt.	14.0	5,026	12.90	64,835	180.60
	1988	400	370	Cwt.	7.3	2,701	26.80	72,387	195.64
Soybeans	1979	210	206	Bu.	27.0	5,562	5.80	32,260	156.60
	1980	210	200	Bu.	17.5	3,500	7.04	24,640	123.20
	1981	250	245	Bu.	28.0	6,860	5.70	39,102	159.60
	1982	425	415	Bu.	21.0	8,715	5.42	47,235	113.82
	1983	540	530	Bu.	27.0	14,310	7.37	105,465	198.99
	1984	750	740	Bu.	23.0	17,020	5.59	95,142	128.57
	1985	500	490	Bu.	26.0	12,740	4.79	61,025	124.54
	1986	475	470	Bu.	35.0	16,450	4.63	76,164	162.05
	1987	520	515	Bu.	32.5	16,738	5.27	88,209	171.28
	1988	750	690	Bu.	18.0	12,420	7.25	90,045	130.50

HISTORIC ESTIMATES CONT.

Crop	Year	Acreage		Unit	Production		Marketing Year Avg. Price	Value of Production	Value per Harvested Acre
		Planted	Harvested		Yield Per Acre	Total			
		(000)				(000)	($/Unit)	(000 Dols.)	(Dols.)
Corn, For Grain*	1979	590	313	Bu.	76.0	23,788	2.16	51,382	164.16
	1980	700	290	Bu.	58.0	16,820	2.93	49,283	169.94
	1981	900	513	Bu.	81.0	41,553	2.20	91,417	178.20
	1982	890	520	Bu.	68.0	35,360	2.48	87,693	168.64
	1983	720	435	Bu.	67.0	29,145	3.03	88,309	203.01
	1984	970	630	Bu.	66.0	41,580	2.57	106,861	169.62
	1985	1,000	560	Bu.	72.0	40,320	2.17	87,494	156.24
	1986	880	530	Bu.	93.0	49,290	1.42	69,992	132.06
	1987	770	500	Bu.	93.0	46,500	1.91	88,815	177.63
	1988	800	380	Bu.	58.0	22,040	2.40	52,896	139.20
Corn, For Silage*	1979	590	252	Tons	6.7	1,688	---	---	---
	1980	700	326	Tons	4.3	1,402	---	---	---
	1981	900	366	Tons	7.3	2,672	---	---	---
	1982	890	348	Tons	6.2	2,158	---	---	---
	1983	720	262	Tons	6.3	1,651	---	---	---
	1984	970	323	Tons	5.8	1,873	---	---	---
	1985	1,000	360	Tons	5.4	1,944	---	---	---
	1986	880	300	Tons	7.5	2,250	---	---	---
	1987	770	230	Tons	7.5	1,725	---	---	---
	1988	800	300	Tons	3.0	900	---	---	---
Sunflower, All	1979	3,460	3,378	Lbs.	1357	4,584,600	$/Cwt. 8.89	407,650	120.68
	1980	2,400	2,235	Lbs.	976	2,181,050	11.00	239,683	107.24
	1981	2,650	2,628	Lbs.	1202	3,158,160	10.70	339,117	129.04
	1982	3,400	3,348	Lbs.	1106	3,703,600	8.84	327,246	97.74
	1983	2,375	2,344	Lbs.	1044	2,446,400	13.00	317,715	135.54
	1984	2,850	2,817	Lbs.	976	2,749,850	11.30	311,370	110.53
	1985	2,190	2,030	Lbs.	1094	2,221,800	8.01	177,957	87.66
	1986	1,460	1,407	Lbs.	1353	1,903,690	7.10	135,179	96.08
	1987	1,400	1,375	Lbs.	1510	2,076,350	8.46	175,625	127.73
	1988	1,600	1,490	Lbs.	891	1,328,000	12.10	160,688	107.84
Sunflower, Non-oil	1979	160	158	Lbs.	1300	205,400	11.70	24,032	152.10
	1980	200	185	Lbs.	930	172,050	13.20	22,711	122.76
	1981	230	228	Lbs.	1220	278,160	13.20	36,717	161.04
	1982	210	208	Lbs.	1200	249,600	12.10	30,202	145.20
	1983	145	144	Lbs.	1100	158,400	12.80	20,275	140.80
	1984	220	217	Lbs.	1050	227,850	14.90	33,950	156.45
	1985	220	210	Lbs.	1220	256,200	13.30	34,075	162.26
	1986	220	212	Lbs.	1370	290,440	9.55	27,737	130.83
	1987	200	195	Lbs.	1450	282,750	9.78	27,653	141.81
	1988	250	240	Lbs.	950	228,000	15.60	35,568	148.20
Sunflower, Oil	1979	3,300	3,220	Lbs.	1360	4,379,200	8.76	383,618	119.14
	1980	2,200	2,050	Lbs.	980	2,009,000	10.80	216,972	105.84
	1981	2,420	2,400	Lbs.	1200	2,880,000	10.50	302,400	126.00
	1982	3,190	3,140	Lbs.	1100	3,454,000	8.60	297,044	94.60
	1983	2,230	2,200	Lbs.	1040	2,288,000	13.00	297,440	135.20
	1984	2,630	2,600	Lbs.	970	2,522,000	11.00	277,420	106.70
	1985	1,970	1,820	Lbs.	1080	1,965,600	7.32	143,882	79.06
	1986	1,240	1,195	Lbs.	1350	1,613,250	6.66	107,442	89.91
	1987	1,200	1,180	Lbs.	1520	1,793,600	8.25	147,972	125.40
	1988	1,350	1,250	Lbs.	880	1,100,000	11.40	125,400	100.32
Millet	1979	80	65	Bu.	32.0	2,080	---	---	---
	1980	160	50	Bu.	28.0	1,400	---	---	---
	1981	130	85	Bu.	33.0	2,805	---	---	---
	1982	75	55	Bu.	24.0	1,320	---	---	---
	1983	75	60	Bu.	29.0	1,740	---	---	---
	1984	95	82	Bu.	28.0	2,296	---	---	---
	1985	100	79	Bu.	39.0	3,081	---	---	---
	1986	120	96	Bu.	35.0	3,360	---	---	---
	1987	Estimates Discontinued							

* Planted Acreage is Corn for All Purposes.

HISTORIC ESTIMATES CONT.

Crop	Year	Acreage		Unit	Production		Marketing Year Avg. Price	Value of Production	Value per Harvested Acre
		Planted	Harvested		Yield Per Acre	Total			
		(000)				(000)	($/Unit)	(000 Dols.)	(Dols.)
Mustard	1981	70	69	Lbs.	920	63,480	---	---	---
	1982	26	25	Lbs.	900	22,500	---	---	---
	1983	33	31	Lbs.	650	20,150	---	---	---
	1984	30	29	Lbs.	830	24,070	---	---	---
	1985	40	39	Lbs.	800	31,200	---	---	---
	1986	30	26	Lbs.	770	20,020	---	---	---
	1987	Estimates Discontinued							
Hay, All	1979	---	3,200	Tons	1.62	5,178	37.50	194,175	60.68
	1980	---	2,500	Tons	.90	2,245	75.00	168,375	67.35
	1981	---	2,900	Tons	1.49	4,315	58.00	250,270	86.30
	1982	---	2,800	Tons	1.75	4,913	41.50	203,890	72.82
	1983	---	2,900	Tons	1.54	4,478	39.00	175,642	60.22
	1984	---	2,900	Tons	1.54	4,468	43.00	192,124	66.25
	1985	---	2,950	Tons	1.28	3,768	51.50	194,052	65.78
	1986	---	3,100	Tons	1.75	5,425	37.00	200,725	64.75
	1987	---	2,950	Tons	1.63	4,795	36.50	175,018	59.33
	1988	---	2,800	Tons	.72	2,010	76.50	153,765	54.92
Hay, Alfalfa	1979	---	1,850	Tons	1.85	3,423	---	---	
	1980	---	1,200	Tons	.95	1,140	---	---	---
	1981	---	1,600	Tons	1.60	2,560	---	---	---
	1982	---	1,550	Tons	2.00	3,100	---	---	---
	1983	---	1,550	Tons	1.80	2,790	---	---	
	1984	---	1,550	Tons	1.75	2,713	---	---	---
	1985	---	1,500	Tons	1.40	2,100	---	---	---
	1986	---	1,550	Tons	2.10	3,255	---	---	---
	1987	---	1,600	Tons	1.90	3,040	---	---	---
	1988	---	1,000	Tons	.75	750	---	---	---
Hay, Other	1979	---	1,350	Tons	1.30	1,755	---	---	
	1980	---	1,300	Tons	.85	1,105	---	---	---
	1981	---	1,300	Tons	1.35	1,755	---	---	---
	1982	---	1,250	Tons	1.45	1,813	---	---	---
	1983	---	1,350	Tons	1.25	1,688	---	---	
	1984	---	1,350	Tons	1.30	1,755	---	---	---
	1985	---	1,450	Tons	1.15	1,668	---	---	---
	1986	---	1,550	Tons	1.40	2,170	---	---	---
	1987	---	1,350	Tons	1.30	1,755	---	---	---
	1988	---	1,800	Tons	.70	1,260	---	---	---
Summerfallow *	1979	6,500	---	---	---	---	---	---	---
	1980	6,450	---	---	---	---	---	---	---
	1981	5,200	---	---	---	---	---	---	---
	1982	5,300	---	---	---	---	---	---	---
	1983	6,900	---	---	---	---	---	---	---
	1984	6,000	---	---	---	---	---	---	---
	1985	6,400	---	---	---	---	---	---	---
	1986	6,600	---	---	---	---	---	---	---
	1987	7,000	---	---	---	---	---	---	---
	1988	6,300	---	---	---	---	---	---	---
Principal Crops Total **	1979	21,056	20,416	---	---	---	---	2,080,154	103.24
	1980	21,287	17,990	---	---	---	---	1,735,769	98.49
	1981	22,955	22,361	---	---	---	---	2,449,133	111.42
	1982	22,308	21,753	---	---	---	---	2,274,984	106.34
	1983	18,970	18,432	---	---	---	---	2,014,790	110.95
	1984	21,351	20,975	---	---	---	---	2,350,165	113.87
	1985	21,455	20,535	---	---	---	---	2,155,873	107.07
	1986	21,428	20,571	---	---	---	---	1,832,315	90.39
	1987	20,203	19,510	---	---	---	---	1,928,939	100.05
	1988	19,798	16,236	---	---	---	---	1,207,927	76.65

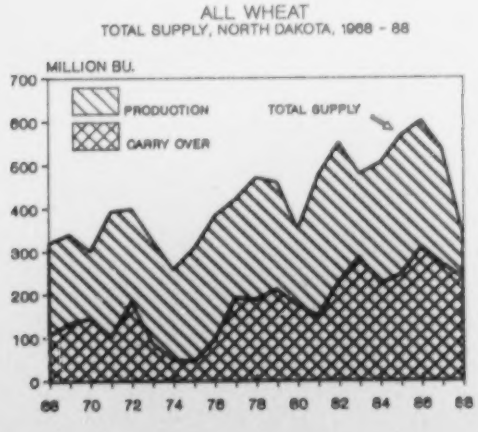
* Acres Summerfallowed.
** Includes acres harvested for hay, but excludes mustard and millet.

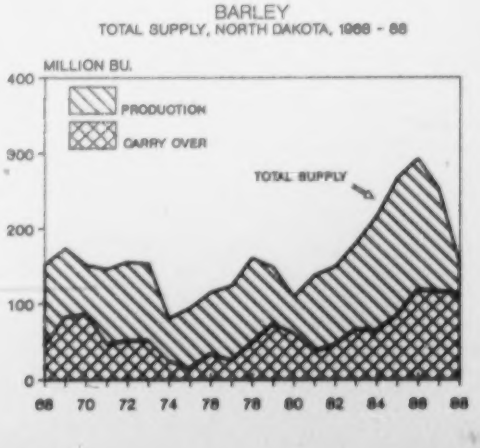
GRAIN STOCKS

STOCKS BY POSITIONS, QUARTERLY, NORTH DAKOTA, 1979-88*

Year Beginning Sept. 1	On Farm				Off Farm				TOTAL			
	Sept. 1	Dec. 1	March 1	June 1	Sept. 1	Dec. 1	March 1	June 1	Sept. 1	Dec. 1	March 1	June 1
	- - - - - - - - - - Thousand Bushels - - - - - - - - - -											
ALL WHEAT												
1979	317,816	242,146	194,221	138,729	62,839	43,409	41,600	35,500	380,655	285,555	235,821	174,229
1980	213,784	179,650	154,499	116,773	59,000	53,500	43,000	34,626	272,784	233,150	197,499	151,399
1981	334,825	275,738	249,478	196,956	64,300	49,205	42,000	32,241	399,125	324,943	291,478	229,197
1982	432,031	354,070	298,848	237,130	69,500	56,000	51,500	51,000	501,531	410,070	350,348	288,130
1983	267,899	242,663	215,484	174,717	73,000	62,000	57,500	48,792	340,899	304,663	272,984	223,509
1984	329,660	255,771	215,984	193,249	79,500	67,000	61,500	54,000	409,160	322,771	277,484	247,249
1985	381,441	323,255	268,302	235,976	85,000	80,000	86,000	76,500	466,441	403,255	354,302	312,476
1986	350,000	315,000	240,000	170,000	110,200	109,500	102,500	101,000	460,200	424,500	342,500	271,000
1987	290,000	260,000	215,000	176,000	113,000	105,000	90,000	62,000	403,000	365,000	305,000	238,000
1988	180,000	163,000	135,000		82,000	71,000	59,000		262,000	234,000	194,000	
DURUM WHEAT												
1979	103,090	74,360	54,925	42,250	16,725	10,428	11,240	6,101	119,815	84,788	66,165	48,351
1980	71,687	59,983	49,742	37,307	15,973	15,600	11,050	7,599	87,660	75,583	60,792	44,906
1981	118,938	98,475	88,244	75,455	19,000	13,000	10,500	7,529	137,938	111,475	98,744	82,984
1982	148,506	130,774	108,609	93,093	21,500	18,000	16,000	16,000	170,006	148,774	124,609	109,093
1983	95,069	82,574	73,339	60,844	24,500	22,500	18,890	16,400	119,569	105,074	92,229	77,244
1984	109,240	82,520	71,517	61,300	25,000	21,000	18,500	16,600	134,240	103,520	90,017	77,900
1985	114,594	103,135	82,126	72,576	25,200	24,000	26,200	23,450	139,794	127,135	108,326	96,026
1986	112,000	86,000	64,000	44,000	28,500	35,100	32,500	25,000	140,500	121,100	96,500	69,000
1987	81,000	66,000	56,000	48,000	30,700	28,500	25,000	16,500	111,700	94,500	81,000	64,500
1988	48,000	44,000	39,000		24,000	20,000	17,000		72,000	64,000	56,000	
BARLEY 1/												
1979	106,260	88,803	68,310	52,371	16,539	11,569	12,400	9,167	122,799	100,372	80,710	61,538
1980	72,000	51,840	38,880	28,800	12,880	12,500	10,200	8,437	84,880	64,340	49,080	37,237
1981	87,696	66,528	50,400	40,320	11,000	8,621	8,215	6,298	98,696	75,149	58,615	46,618
1982	112,652	98,183	70,278	57,876	14,500	11,000	10,000	9,000	127,152	109,183	80,278	66,876
1983	105,487	79,115	67,649	55,037	15,300	13,900	11,230	9,505	120,787	93,015	78,879	64,542
1984	144,478	106,053	89,146	73,776	17,300	15,200	13,800	10,900	161,778	121,253	102,946	84,676
1985	189,778	147,400	NA	93,968	29,900	25,600	NA	24,750	219,678	173,000	NA	118,718
1986	NA	NA	NA	83,000	NA	NA	NA	33,500	NA	NA	NA	116,500
1987	NA	NA	NA	81,000	NA	NA	NA	32,500	NA	NA	NA	113,500
1988	77,000	65,000	47,000		42,000	40,000	37,000		119,000	105,000	84,000	
OATS 1/												
1979	59,136	49,896	37,330	26,611	3,965	3,081	2,010	1,551	63,101	52,977	39,340	28,162
1980	33,750	26,325	15,390	11,475	1,610	1,400	1,500	1,076	35,360	27,725	16,890	12,551
1981	45,043	35,328	22,522	17,222	2,200	1,800	1,300	1,185	47,243	37,128	23,822	18,407
1982	58,433	48,972	33,390	25,043	2,900	2,100	1,750	1,200	61,333	51,072	35,140	26,243
1983	60,449	41,996	36,905	26,725	3,300	1,600	1,130	1,032	63,749	43,596	38,035	27,757
1984	54,978	34,486	29,988	20,492	2,550	1,800	1,670	1,060	57,528	36,286	31,658	21,552
1985	48,972	35,616	NA	15,582	2,350	1,600	NA	1,050	51,322	37,216	NA	16,632
1986	NA	NA	NA	13,500	NA	NA	NA	1,830	NA	NA	NA	15,330
1987	NA	NA	NA	8,500	NA	NA	NA	1,700	NA	NA	NA	10,200

See footnote on following page.





STOCKS BY POSITIONS, QUARTERLY, NORTH DAKOTA, 1979-88*

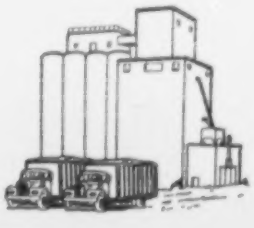
Year Beginning Sept. 1	On Farm				Off Farm				TOTAL			
	Sept. 1	Dec. 1	March 1	June 1	Sept. 1	Dec. 1	March 1	June 1	Sept. 1	Dec. 1	March 1	June 1
	- - - - - - - - - - Thousand Bushels - - - - - - - - - -											
RYE 1/												
1983			1,728				560					2,288
1984			3,348				1,600					4,948
1985			2,165				2,700					4,865
1986			1,900				2,900					4,800
1987			2,800				3,200					6,000
FLAXSEED 1/												
1983			276				781					1,057
1984			488				790					1,278
1985			601				250					851
1986			1,800				425					2,225
1987			790				1,000					1,790

Year Begin.	Dec. 1	March 1	June 1	Sept. 1	Dec. 1	March 1	June 1	Sept. 1	Dec. 1	March 1	June 1	Sept. 1 2/
	- - - - - - - - - - Thousand Bushels - - - - - - - - - -											
CORN												
1979	19,744	14,273	11,894	9,515	2,058	890	986	863	21,802	15,163	12,880	10,378
1980	13,961	8,074	6,728	3,364	2,500	1,857	1,157	420	16,461	9,931	7,885	3,784
1981	29,087	26,178	24,101	22,854	3,767	2,974	2,364	1,950	32,854	29,152	26,465	24,804
1982	38,896	37,128	35,360	17,680	5,350	4,650	4,571	9,200	44,246	41,778	39,931	26,880
1983	20,402	18,944	16,030	8,452	8,900	6,245	4,260	3,200	29,302	25,189	20,290	11,652
1984	28,274	22,869	19,543	14,553	4,500	3,900	2,800	2,600	32,774	26,769	22,343	17,153
1985	39,110	34,675	27,418	25,000	5,800	5,400	5,350	6,300	44,910	40,075	32,768	31,300
1986	49,000	39,000	24,500	21,000	15,199	11,500	9,950	8,100	64,199	50,500	34,450	29,100
1987	46,000	34,000	24,000	21,000	13,000	11,000	7,500	6,000	59,000	45,000	31,500	27,000
1988	30,000	23,000			10,000	6,000			40,000	29,000		
SOYBEANS												
1979	3,671	3,059	2,392	278	1,351	920	723	414	5,022	3,979	3,115	692
1980	1,750	1,400	700	245	912	640	450	330	2,662	2,040	1,150	575
1981	3,499	2,950	1,784	755	1,700	1,200	360	330	5,199	4,150	2,144	1,085
1982	5,316	2,963	2,615	523	1,800	850	752	360	7,116	3,813	3,367	883
1983	4,293	3,864	1,717	286	2,500	1,821	1,031	635	6,793	5,685	2,748	921
1984	6,638	5,276	3,915	1,362	2,900	1,800	1,450	1,500	9,538	7,076	5,365	2,862
1985	8,408	NA	NA	NA	3,500	2,900	1,890	1,850	11,908	NA	NA	NA
1986	NA	NA	NA	NA	5,300	3,900	3,200	2,750	NA	NA	NA	NA
1987	NA	NA	NA	NA	6,200	3,100	1,100	930	NA	NA	NA	NA
1988	NA	NA			3,800	2,100			NA	NA		
	- - - - - - - - - Million Pounds - - - - - - - - -											
SUNFLOWER 2/												
1984	770.0	522.5	275.0	55.0	500.0	348.5	199.5	41.5	1,270.0	871.0	474.5	96.5
1985	1,244.2	NA	NA	240.0	350.0	NA	NA	113.2	1,594.2	NA	NA	353.2
1986	NA	NA	NA	260.0	NA	NA	NA	159.5	NA	NA	NA	419.5
1987	NA	NA	NA	140.0	NA	NA	NA	250.0	NA	NA	NA	390.0

NA - Not Available. —* Beginning September 1, 1986 the NASS changed quarterly reference dates from October 1 to September 1; January 1 to December 1; April 1 to March 1; and June 1 will remain as is. Soybean reference date is also September 1 historically. 1/ Estimates made on June 1 only for Oats starting 1985 crop; for Rye and Flaxseed starting 1983 crop; for Barley 1985 through 1987 crop. Quarterly barley estimates were reinstated starting with 1988 crop. 2/ Annual estimates only for Sunflower, starting September 1, 1986, for 1985 crop.

HAY

Crop of	Production	Stocks Jan. 1	Stocks May 1
	- - - Thousand Ton - - -		
1979	5,178	4,816	1,398
1980	2,245	2,357	427
1981	4,315	3,409	734
1982	4,913	4,225	1,621
1983	4,478	3,672	1,164
1984	4,468	3,887	983
1985	3,768	2,675	641
1986	5,425	5,208	1,465
1987	4,795	5,275	1,343
1988	2,010	2,312	442



GRAIN STORAGE CAPACITY
North Dakota, Dec. 1, 1980-88 2/

Year	On Farm 1/	Off Farm	Total
		- - - Thousand Bushel - - -	
1980*		146,240	
1981*		154,810	
1982*		155,112	
1983		173,530	
1984		182,800	
1985		186,150	
1986	919,677	197,200	1,116,877
1986	901,459	228,630	1,130,089
1987	885,000	232,092	1,117,092
1988	912,000	249,141	1,161,141

* Excludes sunflower facilities. 1/ Survey summary indication prior to 1987. 2/ Jan. 1 prior to 1986.

POTATOES

North Dakota, 1984-88

Crop Year	Harvested Acres	Yield per Acre	Production	Stocks on Hand					
				Dec. 1	Jan. 1	Feb. 1	Mar. 1	Apr. 1	May 1
	(000)	(Cwt)	(000 Cwt)	- - - - - - - - - Thousand Hundredweight - - - - - - - - -					
				REDS					
1984	26.0	153	3,978	3,366	2,580	1,750	1,100	730	430
1985	28.5	160	4,560	3,500	2,720	2,100	NA	NA	NA
1986	25.9	165	4,275	3,050	2,850	2,150	NA	NA	NA
1987	NA	NA	NA	3,500	2,960	2,375	NA	NA	NA
1988 1/	NA	NA	NA	1,575	1,118	885	NA	NA	NA
				WHITES					
1984	91.5	155	14,188	9,716	8,130	6,850	5,540	3,020	1,130
1985	84.0	165	13,900	10,600	8,960	6,950	NA	NA	NA
1986	73.0	181	13,210	9,150	7,550	6,000	NA	NA	NA
1987	NA	NA	NA	10,500	8,584	7,125	NA	NA	NA
1988 1/	NA	NA	NA	6,195	4,902	3,605	NA	NA	NA
				RUSSETS					
1984	15.5	158	2,449	2,218	2,190	2,100	1,760	1,350	940
1985	26.5	195	5,170	4,700	4,320	4,150	NA	NA	NA
1986	21.1	195	4,115	3,300	3,100	2,950	NA	NA	NA
1987	NA	NA	NA	3,500	3,256	3,000	NA	NA	NA
1988 1/	NA	NA	NA	2,730	2,580	2,310	NA	NA	NA
				TOTAL					
1984	133.0	155	20,615	15,300	12,900	10,700	8,400	5,100	2,500
1985	139.0	170	23,630	18,800	16,000	13,200	10,700	7,800	3,800
1986	120.0	180	21,600	15,500	13,500	11,100	8,900	5,900	3,000
1987	125.0	185	23,125	17,500	14,800	12,500	10,000	6,900	3,400
1988 1/	125.0	115	14,375	10,500	8,600	6,800	4,600	3,300	2,000

1/ Preliminary. NA - Not available.

North Dakota, 1983-87

Crop of	Production	Total Used for Seed 1/	Farm Disposition			Price per Cwt.	Value of	
			Seed, Feed and Home	Shrink and Loss	Sold 2/		Production	Sales
	- - - - - - - - - Thousand Hundredweight - - - - - - - - -					(Dols.)	(Thousand Dols.)	
1983	20,480	1,972	300	2,058	18,122	4.90	100,352	88,798
1984	20,615	2,175	310	3,710	16,595	4.65	95,860	77,167
1985	23,630	1,984	340	4,725	18,565	3.20	75,616	59,408
1986	21,600	1,950	325	2,375	18,900	4.20	90,720	79,380
1987	23,125	2,015	280	3,245	19,600	3.50	80,938	68,600

1/ Includes seed purchased and seed used on farms where grown. 2/ Consists of potatoes sold for all purposes Includes food, seed, processing and livestock feed.

PERCENT PLANTED BY TYPE
North Dakota, 1984-88

Year	Acres	Reds	Whites	Russets
	(000)	- - - Percent - - -		
1984	136	19	69	12
1985	145	20	65	15
1986	128	21	62	17
1987	130	21	61	18
1988	130	19	63	18

CERTIFIED SEED
North Dakota, 1984-88

Year	Acres Eligible
1984	30,343
1985	32,983
1986	29,047
1987	30,765
1988	29,265

Source: N.D. State Seed Dept.

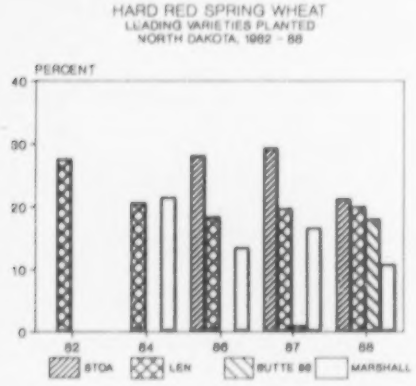
WHEAT VARIETIES

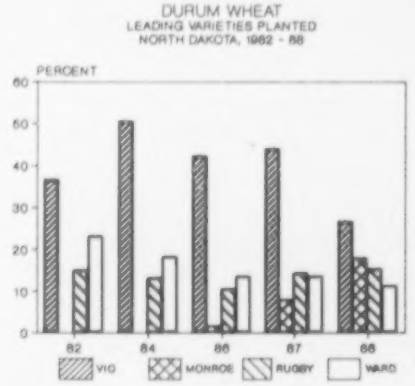
HARD RED SPRING WHEAT
Percent of Acreage Planted
by Variety, North Dakota, 1982-88

Variety	1982	1984	1986	1987	1988
	- - - Percent - - -				
Stoa	-	-	28.1	29.3	21.2
Len	27.6	20.6	18.4	19.7	20.0
Butte 86	-	-	-	.9	18.0
Marshall	1/	21.5	13.5	16.6	10.8
Coteau	11.9	6.8	3.6	3.7	4.3
Pion. Var. 2369	-	1.1	5.5	6.1	3.7
Alex	1/	10.0	6.0	3.1	2.9
Waldron	10.3	6.7	4.9	3.0	2.1
Wheaton	-	1/	4.0	2.9	1.8
Butte	15.5	8.4	2.8	1.6	1.4
Norak	-	-	1/	2.1	1.3
Celtic	-	-	-	-	1.1
Olaf	14.7	8.0	2.0	1.6	1.1
Success	-	-	1/	1.2	1.0
Leo 747	-	-	2.0	1.1	1.0
Pion. Var. 2385	-	-	-	-	1.0
Other	20.0	16.9	9.2	7.1	7.3
All Varieties	100.0	100.0	100.0	100.0	100.0

DURUM WHEAT
Percent of Acreage Planted
by Variety, North Dakota, 1982-88

Variety	1982	1984	1986	1987	1988
	- - - - Percent - - - -				
Vic	36.6	50.4	42.2	43.9	26.6
Monroe	-	-	1.7	8.1	18.0
Rugby	15.1	13.3	10.6	14.4	15.4
Ward	23.2	18.3	13.6	13.7	11.4
Medora	-	-	2.3	3.5	8.0
Cando	6.0	3.9	3.2	5.7	6.4
Lloyd	-	1.8	20.4	5.4	4.1
Crosby	10.1	5.7	3.9	2.8	3.4
Laker	-	-	1/	1/	2.3
Sceptre	-	-	-	-	1.7
Other	9.0	6.6	2.1	2.5	2.7
All Varieties	100.0	100.0	100.0	100.0	100.0





PERCENT OF ACREAGE PLANTED BY DISTRICTS,
North Dakota, 1988

Variety	North-west	North Cent.	North-east	West Cent.	Cen-tral	East Cent.	South-west	South Cent.	South-east	State
	- - - - - Percent Planted - - - - -									
	HARD RED SPRING WHEAT									
Stoa	41.2	31.3	12.1	31.6	18.0	20.0	27.2	13.6	15.5	21.2
Len	24.1	22.3	5.8	27.3	23.7	11.0	29.4	28.5	24.9	20.0
Butte 86	5.7	10.3	22.4	3.6	23.2	29.1	5.7	7.8	28.4	18.0
Marshall	1.1	3.3	32.1	1.3	5.1	19.6	0.6	1.5	6.2	10.8
Coteau	5.2	5.9	0.7	6.3	3.7	0.7	10.3	10.7	2.8	4.3
Pion. Var. 2369	0.2	4.7	3.6	0.7	4.4	4.4	6.3	0.6	5.5	3.7
Alex	3.8	2.5	0.1	9.2	2.5	0.5	6.3	7.0	1.2	2.9
Waldron	3.3	2.4	-	8.5	.9	-	2.9	6.3	1.0	2.1
Wheaton	1.7	1.8	2.9	0.4	0.1	1.9	2.6	4.3	0.4	1.8
Butte	2.7	0.4	1.4	2.0	1.0	1.3	0.1	1.3	2.2	1.4
Norak	3.3	3.4	1.7	0.4	2.5	0.1	0.9	0.6	0.1	1.3
Celtic	-	3.1	3.5	-	0.1	1.2	0.3	-	0.6	1.1
Olaf	0.6	0.1	0.1	0.3	1.3	0.1	0.7	5.1	2.4	1.1
Success	0.5	0.9	0.1	2.5	2.0	0.1	1.4	2.2	1.2	1.0
Leo 747	0.7	0.4	0.3	1.6	0.8	0.2	2.2	4.4	0.3	1.0
Pion. Var. 2385	0.2	0.7	1.2	0.1	1.0	1.8	0.1	-	2.0	1.0
Other	5.7	6.5	12.0	4.2	9.7	8.0	3.0	6.1	5.3	7.3
	DURUM									
Vic	35.2	24.5	3.5	32.3	33.3	40.1	40.6	32.5	56.6	26.6
Monroe	23.1	14.5	7.3	33.5	23.0	9.6	7.4	15.7	34.3	18.0
Rugby	1.9	26.4	33.8	0.3	22.9	-	-	-	1.8	15.4
Ward	5.8	10.5	20.2	10.5	10.1	-	21.7	24.1	5.0	11.4
Medora	11.6	9.9	2.6	16.1	4.8	-	5.2	7.0	-	8.0
Cando	0.7	0.2	24.3	-	0.9	19.0	-	-	-	6.4
Lloyd	3.9	6.8	0.1	4.8	3.0	-	18.2	20.7	-	4.1
Crosby	11.2	-	0.7	-	-	-	-	-	-	3.4
Laker	2.6	2.8	1.1	0.8	0.5	15.9	2.2	-	0.8	2.3
Sceptre	0.2	3.5	3.2	-	-	7.0	0.9	-	-	1.7
Other	3.8	0.9	3.2	1.7	1.5	8.4	3.8	-	1.5	2.7

1/ Less than 1.0% included in other.

WHEAT VARIETIES CONT.

WINTER WHEAT
Percent of Acreage Planted
by Varieties, North Dakota, 1982-88

Variety	1982	1984	1986	1987	1988
		- - - - Percent - - - -			
Roughrider	74.8	77.5	57.3	58.2	51.4
Agassiz	-	1/	10.8	19.0	28.3
Norstar	11.5	17.6	23.0	16.5	9.4
Siouxland	-	-	1/	.9	3.4
Big Horn	-	-	2.5	4.4	2.7
Rose	-	1/	3.2	.7	1.8
Seward	-	-	-	-	1.4
Other	13.7	4.9	3.2	.3	1.6
All Varieties	100.0	100.0	100.0	100.0	100.0

1/ Less than 0.5% included in other.

WINTER WHEAT
Percent of Acreage Planted by Agricultural
Statistics Districts, 1988, North Dakota

District	Roughrider	Agassiz	Norstar
	- - - - Percent - - - -		
Northwest	54.2	20.5	24.6
North Central	16.6	21.6	46.1
Northeast	88.9	11.1	-
West Central	10.8	51.3	31.5
Central	58.6	33.4	-
East Central	68.0	2.4	-
Southwest	22.4	60.0	4.6
South Central	42.5	34.9	8.2
Southeast	88.9	4.1	-
STATE	51.4	28.3	9.4

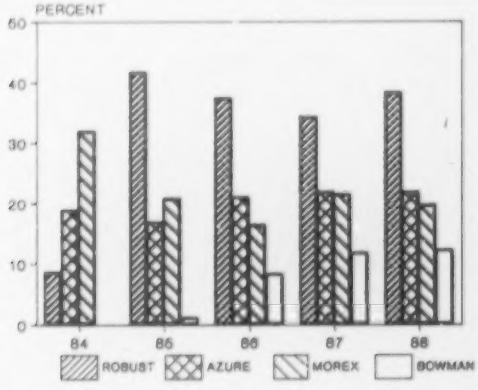
BARLEY VARIETIES

PERCENT OF ACREAGE PLANTED BY VARIETIES
North Dakota, 1984-88

Variety	1984	1985	1986	1987	1988
		- - - - Percent - - - -			
Robust	8.6	41.7	37.4	34.3	38.6
Azure	18.9	16.9	21.1	21.9	21.9
Morex	31.9	20.8	16.4	21.5	19.7
Bowman	1/	1.2	8.4	11.8	12.3
Hector	6.5	6.7	4.2	2.6	2.0
Hazen	1/	4.9	6.8	3.9	1.9
Larker	2.2	1.5	1/	1.1	.8
Glenn	18.4	3.1	1.5	.9	.5
Other	13.5	3.2	4.2	2.0	2.3
All Varieties	100.0	100.0	100.0	100.0	100.0

1/ Less than 1.0 percent included in other.

LEADING VARIETIES PLANTED
NORTH DAKOTA, 1984 - 88

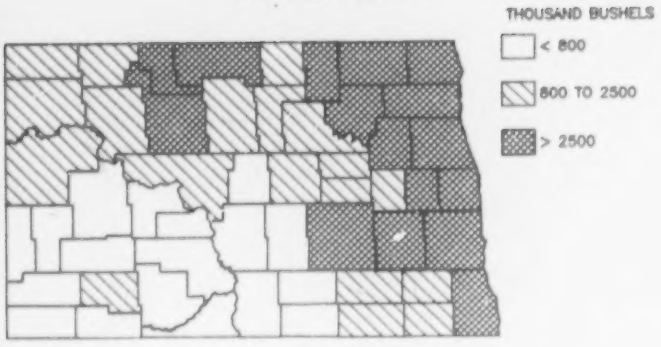


PERCENT OF ACREAGE PLANTED BY DISTRICT,
North Dakota, 1988

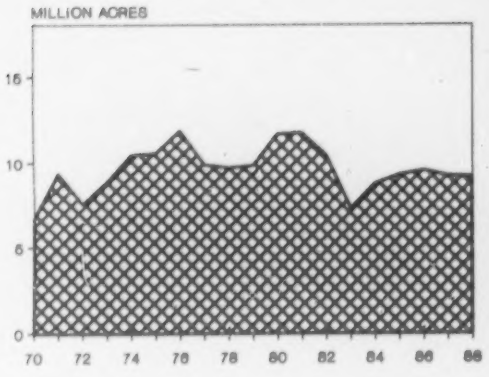
Variety	North-west	North Cent.	North-east	West Cent.	Cen-tral	East Cent.	South-west	South-Cent.	South-east	State
				- - - - Percent - - - -						
Robust	8.6	40.6	69.8	7.9	19.6	40.9	2.2	5.6	40.5	38.6
Azure	4.4	18.1	17.9	7.9	53.9	39.4	2.4	12.3	15.2	21.9
Morex	42.3	35.6	9.4	16.1	12.4	16.7	.4	5.7	30.7	19.7
Bowman	26.6	.1	-	50.3	5.9	-	82.9	54.0	8.0	12.3
Hector	12.1	-	-	4.2	.8	-	6.5	2.6	-	2.0
Hazen	1.5	3.6	.2	6.1	6.6	.3	-	9.3	.7	1.9
Larker	1.9	.4	.5	5.4	.5	.2	-	1.9	.5	.8
Glenn	-	.4	.1	1.4	-	.1	2.4	3.1	1.2	.5
Other	2.6	1.2	2.1	.7	.3	2.4	3.2	5.5	3.2	2.3

ALL WHEAT

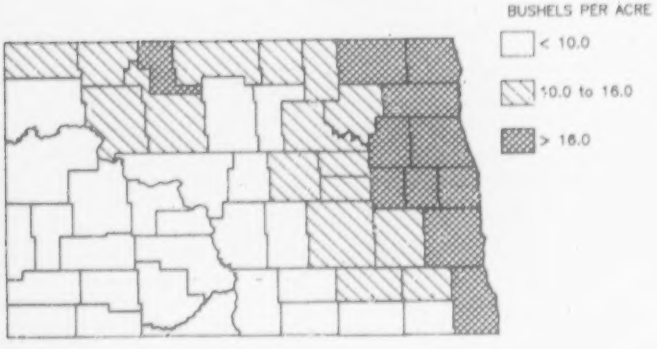
PRODUCTION
NORTH DAKOTA, 1988



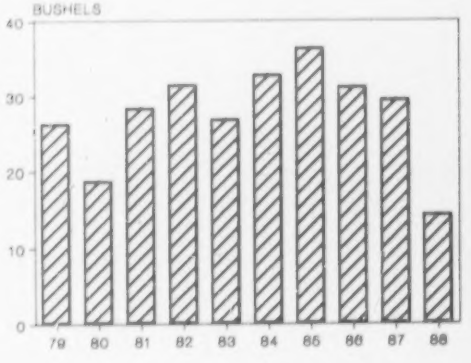
PLANTED ACRES
NORTH DAKOTA, 1970 - 88



YIELD PER HARVESTED ACRE
NORTH DAKOTA, 1988



YIELD PER HARVESTED ACRE
NORTH DAKOTA, 1979 - 88



North Dakota, 1979-88

Year	Acres Planted	Acres Harvested	Yield Per Harvested Acre	Production	Marketing Year Avg. Price	Value of Production	Value per Harvested Acre
	(Acres)	(Acres)	(Bu.)	(Bu.)	($/Bu.)	(Dols.)	(Dols.)
1979	9,900,000	9,600,000	26.3	252,235,000	3.89	981,194,000	102.21
1980	11,735,000	9,620,000	18.7	179,650,000	4.52	812,018,000	84.41
1981	11,825,000	11,570,000	28.4	328,260,000	3.58	1,175,171,000	101.57
1982	10,525,000	10,300,000	31.5	324,835,000	3.48	1,133,906,000	110.09
1983	7,370,000	7,205,000	26.9	194,130,000	3.78	733,811,000	101.85
1984	8,820,000	8,660,000	32.8	284,190,000	3.57	1,014,558,000	117.15
1985	9,350,000	8,870,000	36.4	323,255,000	3.26	1,053,977,000	118.82
1986	9,620,000	9,380,000	31.2	292,320,000	2.54	742,835,000	79.19
1987	9,300,000	9,135,000	29.5	269,120,000	2.95	794,146,000	86.93
1988	9,250,000	7,230,000	14.3	103,390,000	4.15	429,069,000	59.35

ALL WHEAT

North Dakota, 1988 and 5-Year Average, 1983-87

District and County	1988					5-Year Average, 1983-87			
	Acres Planted	Acres Harvested	Yield Per Harvested Acre	Production		Acres Planted	Acres Harvested	Yield Per Harvested Acre	Production
				Quantity	Rank				
	(Acres)	(Acres)	(Bu.)	(Bu.)	(No.)	(Acres)	(Acres)	(Bu.)	(Bu.)
Burke	154,000	136,900	15.7	2,150,800	18	155,000	150,700	26.2	3,963,400
Divide	194,200	175,600	11.9	2,088,400	21	190,300	183,800	22.8	4,298,000
Mountrail	218,300	194,800	11.0	2,144,500	19	217,800	213,100	26.8	5,751,100
Renville	180,000	172,500	17.0	2,932,000	16	170,200	168,600	33.1	5,594,100
Ward	366,500	326,300	12.3	4,000,300	8	348,300	339,800	31.9	10,878,200
Williams	304,000	261,000	8.0	2,087,500	22	288,100	280,600	21.4	6,070,600
Northwest	1,417,000	1,267,100	12.2	15,403,500		1,369,700	1,336,700	27.2	36,555,300
Benson	237,000	152,000	10.8	1,645,000	25	210,100	207,500	28.9	6,001,800
Bottineau	321,000	295,000	15.2	4,488,800	5	299,800	287,600	31.7	9,105,500
McHenry	172,000	133,500	9.7	1,290,000	29	170,900	167,100	27.6	4,628,600
Pierce	145,500	91,800	9.9	906,900	31	145,300	142,700	25.4	3,627,300
Rolette	127,000	117,500	14.1	1,661,000	24	114,500	111,900	30.1	3,401,100
North Central	1,002,500	789,800	12.7	9,991,700		940,500	916,700	29.1	26,764,300
Cavalier	343,500	330,800	18.6	6,160,600	1	310,900	307,400	39.2	12,171,900
Grand Forks	233,100	228,400	26.4	6,041,000	2	222,000	219,100	43.7	9,588,700
Nelson	190,700	183,600	17.9	3,285,300	12	186,200	183,500	34.4	6,317,400
Pembina	227,200	202,100	22.0	4,450,100	6	222,100	221,900	45.2	10,095,800
Ramsey	262,000	247,400	15.8	3,902,800	10	241,700	237,400	32.6	7,751,000
Towner	230,500	218,500	15.9	3,474,500	11	217,400	211,300	31.1	6,618,600
Walsh	263,000	248,000	21.8	5,404,000	4	254,100	250,100	43.7	10,986,500
Northeast	1,750,000	1,658,800	19.7	32,718,300		1,654,200	1,630,600	38.7	63,529,900
Dunn	106,700	47,800	7.5	359,100	45	112,200	105,300	25.1	2,653,500
McKenzie	145,500	94,600	8.9	839,600	34	144,400	136,800	23.6	3,249,300
McLean	308,400	248,000	9.3	2,317,800	17	308,400	302,500	29.4	8,931,500
Mercer	79,700	48,100	9.6	464,000	42	76,400	74,400	29.6	2,230,500
Oliver	47,200	29,700	8.0	237,000	48	46,500	45,800	28.3	1,302,400
West Central	687,500	468,200	9.0	4,217,500		688,000	664,900	27.5	18,367,200
Eddy	81,500	67,700	12.0	809,200	35	77,900	76,700	28.1	2,166,200
Foster	124,800	110,600	14.2	1,573,600	27	116,000	111,400	32.4	3,624,100
Kidder	72,000	22,900	6.4	147,400	51	89,900	89,100	23.0	2,049,000
Sheridan	111,300	75,000	8.4	632,300	38	114,000	111,200	27.6	3,074,100
Stutsman	343,400	250,200	12.5	3,116,800	14	345,700	334,800	30.8	10,403,300
Wells	234,000	185,800	11.2	2,089,000	20	213,500	208,900	30.9	6,454,600
Central	967,000	712,200	11.7	8,368,300		957,100	932,100	29.6	27,771,400
Barnes	288,500	254,800	15.4	3,935,700	9	271,400	261,800	34.1	8,991,400
Cass	304,800	284,600	19.2	5,468,400	3	293,900	285,500	43.0	12,344,500
Griggs	120,000	113,300	18.0	2,044,200	23	107,800	104,900	33.2	3,495,200
Steele	135,800	130,300	23.8	3,105,600	15	129,400	126,300	38.2	4,871,900
Traill	145,900	143,300	31.0	4,436,000	7	142,700	141,100	43.2	6,131,200
East Central	995,000	926,300	20.5	18,989,900		945,200	919,600	38.7	35,834,300
Adams	114,000	58,900	7.1	419,800	43	112,300	107,900	26.8	2,896,300
Billings	42,000	21,200	6.8	144,300	52	33,600	30,100	21.1	651,000
Bowman	95,000	59,500	8.2	489,800	40	100,900	95,300	23.5	2,251,600
Golden Valley	81,500	37,200	6.4	237,600	47	72,400	66,400	22.1	1,494,700
Hettinger	203,500	152,000	9.0	1,367,000	28	207,800	201,200	30.1	6,103,900
Slope	97,000	74,600	9.1	679,200	37	86,700	83,600	27.0	2,268,300
Stark	158,000	98,600	7.7	754,800	36	156,200	150,500	27.1	4,084,500
Southwest	791,000	502,000	8.2	4,092,500		769,900	735,000	26.7	19,750,400
Burleigh	137,500	48,500	6.5	313,000	46	143,700	139,600	24.8	3,494,300
Emmons	170,000	40,000	5.5	220,000	49	173,700	171,100	23.8	4,102,100
Grant	110,500	57,700	8.1	464,900	41	106,400	101,200	26.3	2,669,400
Morton	133,500	66,000	7.7	511,300	39	130,000	120,100	27.3	3,307,500
Sioux	36,500	11,900	5.3	63,000	53	40,700	33,800	23.1	786,200
South Central	588,000	224,100	7.0	1,572,200		594,400	565,800	25.2	14,359,500
Dickey	164,000	100,000	9.0	898,000	32	142,800	138,500	28.5	3,946,700
LaMoure	202,500	136,300	11.9	1,624,300	26	181,800	175,500	29.8	5,273,000
Logan	105,200	41,200	9.4	389,000	44	102,000	101,000	25.7	2,616,300
McIntosh	134,100	34,300	6.1	208,000	50	127,900	125,100	23.2	2,908,700
Ransom	113,000	86,700	10.8	933,000	30	105,200	100,700	33.7	3,406,600
Richland	200,700	193,600	16.2	3,132,500	13	189,200	187,700	39.8	7,533,400
Sargent	132,500	89,400	9.5	851,300	33	124,100	120,000	32.6	3,986,000
Southeast	1,052,000	681,500	11.8	8,036,100		973,000	948,600	31.1	29,670,700
STATE	9,250,000	7,230,000	14.3	103,390,000		8,892,000	8,650,000	31.4	272,603,000

ALL WHEAT CONT.

North Dakota, 1986 and 1987

District and County	1986				1987			
	Acres Planted	Acres Harvested	Yield Per Harvested Acre	Production	Acres Planted	Acres Harvested	Yield Per Harvested Acre	Production
	(Acres)	(Acres)	(Bu.)	(Bu.)	(Acres)	(Acres)	(Bu.)	(Bu.)
Burke	164,000	161,200	33.9	5,468,700	156,200	154,700	23.0	3,559,000
Divide	203,000	199,800	33.9	6,765,600	204,300	198,100	29.3	5,811,600
Mountrail	235,000	232,500	37.7	8,769,300	226,500	223,400	19.3	4,312,100
Renville	182,500	181,900	37.3	6,776,000	180,000	179,000	23.6	4,231,000
Ward	372,500	371,400	37.0	13,724,000	361,900	339,700	20.4	6,931,300
Williams	303,000	298,200	31.4	9,368,400	286,600	284,800	24.0	6,822,000
Northwest	1,460,000	1,445,000	35.2	50,872,000	1,415,500	1,379,700	23.0	31,667,000
Benson	218,000	212,900	28.6	6,098,300	226,300	225,700	25.3	5,701,000
Bottineau	332,000	326,500	35.2	11,506,000	311,000	306,200	23.8	7,275,000
McHenry	187,000	182,800	28.6	5,219,200	179,000	172,700	20.5	3,535,000
Pierce	157,000	154,800	25.7	3,971,500	156,400	152,700	19.6	2,987,000
Rolette	136,000	132,000	33.0	4,355,000	120,800	117,200	25.2	2,959,000
North Central	1,030,000	1,009,000	30.9	31,150,000	993,500	974,500	23.0	22,457,000
Cavalier	330,500	322,500	35.6	11,467,000	345,300	344,300	39.7	13,656,500
Grand Forks	240,500	240,200	39.1	9,401,000	230,400	228,000	42.8	9,769,400
Nelson	207,000	204,600	31.0	6,339,400	202,800	200,200	32.5	6,497,500
Pembina	242,000	242,000	39.0	9,444,000	231,000	231,000	46.4	10,714,000
Ramsey	277,000	264,800	30.3	8,016,600	266,800	265,100	30.1	7,972,200
Towner	234,000	221,000	27.2	6,003,000	235,800	234,700	30.7	7,198,700
Walsh	274,000	272,900	38.6	10,539,000	267,900	267,100	44.0	11,758,700
Northeast	1,805,000	1,766,000	34.6	61,210,000	1,780,000	1,770,400	38.2	67,567,000
Dunn	112,000	107,000	29.0	3,101,000	108,100	101,500	22.4	2,277,000
McKenzie	151,500	143,500	29.1	4,172,400	147,200	144,900	24.6	3,570,100
McLean	350,000	347,100	33.8	11,723,000	332,000	328,200	21.9	7,176,000
Mercer	83,500	83,500	31.6	2,640,000	77,700	76,300	25.6	1,953,500
Oliver	48,000	46,900	29.8	1,395,600	51,000	49,900	24.0	1,195,400
West Central	745,000	728,000	31.6	23,032,000	716,000	700,800	23.1	16,172,000
Eddy	89,500	88,000	28.3	2,489,000	79,000	77,200	28.5	2,198,500
Foster	130,000	126,800	31.5	3,995,500	123,200	117,100	30.3	3,552,600
Kidder	100,000	98,800	21.3	2,104,000	82,700	81,300	23.6	1,919,800
Sheridan	122,000	120,000	27.8	3,332,500	121,400	120,300	23.9	2,880,000
Stutsman	394,500	383,400	30.8	11,795,000	357,700	356,000	31.1	11,086,000
Wells	224,000	221,000	30.9	6,834,000	237,500	230,600	28.1	6,469,100
Central	1,060,000	1,038,000	29.4	30,550,000	1,001,500	982,500	28.6	28,106,000
Barnes	287,000	282,500	31.8	8,983,000	279,500	278,700	34.0	9,462,000
Cass	315,000	307,400	33.9	10,410,600	305,200	302,600	43.0	13,018,100
Griggs	112,500	111,500	29.4	3,281,000	119,700	116,100	30.1	3,492,200
Steele	123,500	122,900	35.9	4,412,000	134,300	131,000	35.1	4,595,100
Traill	147,000	146,700	36.5	5,356,400	147,300	144,800	40.7	5,888,600
East Central	985,000	971,000	33.4	32,443,000	986,000	973,200	37.5	36,456,000
Adams	122,000	114,300	24.3	2,777,000	120,500	117,000	28.6	3,344,000
Billings	36,500	35,400	25.6	907,800	32,000	30,400	24.7	752,000
Bowman	102,500	98,800	23.9	2,361,500	110,700	106,000	25.7	2,727,000
Golden Valley	69,000	65,700	24.0	1,575,000	81,800	80,000	28.6	2,289,300
Hettinger	242,500	238,000	31.1	7,402,200	208,500	201,100	26.9	5,403,400
Slope	94,500	92,500	26.3	2,431,500	90,500	89,500	29.4	2,632,900
Stark	158,000	151,300	28.6	4,323,000	163,500	162,000	26.8	4,340,400
Southwest	825,000	796,000	27.4	21,778,000	807,500	786,000	27.3	21,489,000
Burleigh	166,000	159,200	25.1	3,989,500	139,500	133,900	23.9	3,194,400
Emmons	184,400	179,000	21.4	3,831,000	178,000	175,400	24.2	4,251,400
Grant	114,400	106,400	24.9	2,653,000	108,000	105,000	25.7	2,701,600
Morton	136,900	123,600	30.5	3,770,000	132,000	127,800	28.0	3,583,600
Sioux	48,300	41,800	20.2	842,500	35,500	28,400	21.0	597,000
South Central	650,000	610,000	24.7	15,086,000	593,000	570,500	25.1	14,328,000
Dickey	182,000	173,500	23.2	4,031,000	140,000	137,200	27.9	3,827,800
LaMoure	189,000	178,700	25.6	4,579,000	191,000	190,600	29.7	5,654,400
Logan	103,200	100,100	26.1	2,615,000	110,600	110,400	25.1	2,765,900
McIntosh	136,500	130,400	22.0	2,868,000	136,000	131,400	22.5	2,950,200
Ransom	115,800	110,500	28.7	3,176,000	107,900	107,200	31.7	3,403,300
Richland	206,500	202,700	29.3	5,930,000	200,500	200,400	42.6	8,530,000
Sargent	127,000	119,100	25.2	3,000,000	121,000	120,200	31.2	3,746,400
Southeast	1,060,000	1,015,000	25.8	26,199,000	1,007,000	997,400	31.0	30,878,000
STATE	9,620,000	9,380,000	31.2	292,320,000	9,300,000	9,135,000	29.5	269,120,000

ALL WHEAT CONT.

North Dakota, 1987

District and County	Summer Fallow				Continuous Cropping			
	Acres Planted	Acres Harvested	Yield Per Harvested Acre	Production	Acres Planted	Acres Harvested	Yield Per Harvested Acre	Production
—	(Acres)	(Acres)	-(Bu.)	(Bu.)	(Acres)	(Acres)	(Bu.)	(Bu.)
Burke	129,900	128,500	23.3	2,988,200	26,300	26,200	21.8	570,800
Divide	185,000	178,900	29.6	5,297,500	17,800	17,700	24.4	431,600
Mountrail	191,500	190,700	19.9	3,780,900	35,000	32,700	16.0	523,200
Renville	126,100	125,500	26.0	3,269,000	53,900	53,500	18.0	962,000
Ward	210,500	199,700	22.7	4,537,800	151,100	139,700	17.0	2,380,000
Williams	267,800	266,400	23.8	6,327,400	15,000	14,600	19.5	284,400
Northwest	1,110,800	1,089,700	24.1	26,208,800	299,100	284,400	18.1	5,152,000
Benson	123,100	122,800	27.0	3,311,500	101,900	101,600	23.1	2,344,100
Bottineau	177,500	176,100	26.6	4,676,000	133,300	129,900	19.9	2,591,000
McHenry	102,500	100,500	22.2	2,234,800	76,200	71,900	17.9	1,286,400
Pierce	90,600	89,400	21.9	1,962,200	65,800	63,300	16.2	1,024,800
Rolette	66,000	65,000	29.0	1,886,000	54,800	52,200	20.6	1,073,000
North Central	559,700	553,800	25.4	14,070,500	432,000	418,900	19.9	8,319,300
Cavalier	177,900	177,500	41.1	7,291,600	167,400	166,800	38.2	6,364,900
Grand Forks	85,900	85,300	41.8	3,566,200	143,900	142,100	43.5	6,176,200
Nelson	99,900	98,700	34.2	3,370,700	102,900	101,500	30.8	3,126,800
Pembina	74,900	74,900	47.0	3,517,400	156,100	156,100	46.1	7,196,600
Ramsey	144,900	143,700	31.6	4,542,200	121,900	121,400	28.3	3,430,000
Towner	122,300	121,700	31.3	3,814,900	113,500	113,000	29.9	3,383,800
Walsh	86,800	86,400	43.1	3,723,400	181,000	180,600	44.5	8,031,300
Northeast	792,600	788,200	37.8	29,826,400	986,700	981,500	38.4	37,709,600
Dunn	73,500	70,300	24.0	1,687,800	34,600	31,200	18.9	589,200
McKenzie	125,400	123,400	23.5	2,898,000	17,000	16,700	20.8	348,100
McLean	213,600	211,500	24.0	5,066,800	116,500	114,800	17.7	2,031,800
Mercer	60,800	60,500	27.9	1,686,700	16,800	15,700	16.8	263,300
Oliver	32,400	31,700	27.2	861,800	18,500	18,100	18.2	329,600
West Central	505,700	497,400	24.5	12,201,100	203,400	196,500	18.1	3,562,000
Eddy	31,200	30,400	31.1	944,300	47,300	46,300	26.7	1,236,700
Foster	57,200	56,000	31.4	1,757,100	65,200	60,300	29.3	1,767,500
Kidder	36,200	35,400	27.1	960,700	45,400	44,800	20.3	911,200
Sheridan	68,800	68,500	26.0	1,780,800	52,600	51,800	21.2	1,099,200
Stutsman	160,200	160,200	34.4	5,506,600	197,200	195,500	28.5	5,565,300
Wells	126,700	121,900	30.9	3,763,300	110,800	108,700	24.9	2,705,800
Central	480,300	472,400	31.1	14,712,800	518,500	507,400	26.2	13,285,700
Barnes	123,500	123,100	37.4	4,599,000	155,500	155,100	31.2	4,843,000
Cass	81,000	80,500	43.6	3,506,700	222,500	220,400	42.8	9,437,400
Griggs	61,400	59,600	32.0	1,907,000	57,600	55,800	27.9	1,558,400
Steele	59,000	57,900	36.6	2,119,600	74,800	72,600	33.8	2,454,500
Traill	46,500	45,600	41.7	1,901,300	100,700	99,100	40.2	3,982,800
East Central	371,400	366,700	38.3	14,033,600	611,100	603,000	36.9	22,276,100
Adams	92,600	89,900	30.2	2,710,900	27,900	27,100	23.4	633,100
Billings	25,300	24,400	26.8	653,100	6,700	6,000	16.5	98,900
Bowman	93,500	89,500	27.1	2,422,000	17,200	16,500	18.5	305,000
Golden Valley	65,800	64,900	29.0	1,880,000	16,000	15,100	27.1	409,300
Hettinger	142,200	137,300	27.5	3,782,000	66,300	63,800	25.4	1,621,400
Slope	67,000	66,300	30.9	2,045,400	23,500	23,200	25.3	587,500
Stark	111,200	110,500	28.5	3,147,400	52,300	51,500	23.2	1,193,000
Southwest	597,600	582,800	28.6	16,640,800	209,900	203,200	23.9	4,848,200
Burleigh	68,500	66,000	26.9	1,772,900	70,900	67,800	20.9	1,417,000
Emmons	67,600	67,500	26.9	1,817,500	109,400	106,900	22.3	2,378,900
Grant	67,100	65,700	26.6	1,748,400	40,900	39,300	24.3	953,200
Morton	83,300	80,600	29.4	2,368,800	48,600	47,100	25.7	1,210,800
Sioux	18,900	15,100	23.4	353,300	16,200	12,900	17.7	227,700
South Central	305,400	294,900	27.3	8,060,900	286,000	274,000	22.6	6,187,600
Dickey	48,800	47,200	30.2	1,426,200	90,500	89,300	26.4	2,360,900
LaMoure	89,100	88,800	31.6	2,805,900	101,400	101,300	27.9	2,823,500
Logan	56,800	56,800	27.3	1,553,300	53,400	53,200	22.3	1,188,600
McIntosh	66,500	64,600	25.8	1,666,200	69,500	66,800	19.2	1,284,000
Ransom	42,700	42,400	35.1	1,488,500	64,500	64,100	29.3	1,879,800
Richland	38,000	37,900	41.4	1,569,600	162,500	162,500	42.8	6,960,400
Sargent	31,400	31,200	36.4	1,135,100	89,500	88,900	29.3	2,606,300
Southeast	373,300	368,900	31.6	11,644,800	631,300	626,100	30.5	19,103,500
STATE	5,096,800	5,014,800	29.4	147,399,700	4,178,000	4,095,000	29.4	120,444,000

1/ See page 81 for irrigated acres.

ALL WHEAT CONT.

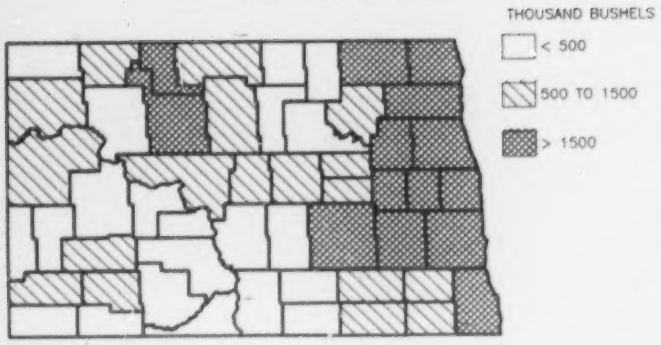
North Dakota, 1988 1/

District and County	Summer Fallow				Continuous Cropping			
	Acres Planted	Acres Harvested	Yield Per Harvested Acre	Production	Acres Planted	Acres Harvested	Yield Per Harvested Acre	Production
	(Acres)	(Acres)	(Bu.)	(Bu.)	(Acres)	(Acres)	(Bu.)	(Bu.)
Burke	131,100	120,700	16.5	1,989,900	22,900	16,200	9.9	160,900
Divide	180,000	167,100	11.9	1,989,400	12,100	6,400	7.9	50,700
Mountrail	176,900	160,500	11.6	1,859,700	41,400	34,300	8.3	284,800
Renville	134,400	129,000	18.7	2,411,700	45,600	43,500	12.0	520,300
Ward	220,700	205,400	14.1	2,896,800	145,400	120,500	9.1	1,095,500
Williams	282,800	252,800	7.8	1,978,500	17,300	4,700	5.4	25,500
Northwest	1,125,900	1,035,500	12.7	13,126,000	284,700	225,600	9.5	2,137,700
Benson	149,300	116,400	11.5	1,340,700	86,700	34,700	8.2	285,300
Bottineau	201,900	188,100	16.6	3,129,100	118,800	106,600	12.7	1,349,000
McHenry	103,000	89,400	10.9	977,200	68,600	43,700	7.0	304,000
Pierce	96,400	73,600	9.9	731,900	49,100	18,200	9.6	175,000
Rolette	70,400	65,300	15.3	1,000,700	56,600	52,200	12.6	660,300
North Central	621,000	532,800	13.5	7,179,600	379,800	255,400	10.9	2,773,600
Cavalier	187,900	182,200	21.7	3,949,600	155,600	148,600	14.9	2,211,000
Grand Forks	93,400	92,400	30.4	2,805,000	139,000	135,300	23.7	3,204,500
Nelson	97,800	95,200	19.4	1,847,400	92,900	88,400	16.3	1,437,900
Pembina	72,100	70,900	24.5	1,738,900	155,100	131,200	20.7	2,711,200
Ramsey	140,300	134,400	18.3	2,463,800	121,700	113,000	12.7	1,439,000
Towner	132,700	126,900	17.4	2,205,900	97,800	91,600	13.8	1,268,600
Walsh	92,400	90,900	23.8	2,165,100	170,500	157,000	20.6	3,233,900
Northeast	816,600	792,900	21.7	17,175,700	932,600	865,100	17.9	15,506,100
Dunn	73,900	42,500	8.0	338,100	32,800	5,300	4.0	21,000
McKenzie	120,700	85,600	7.8	670,000	18,700	3,100	5.3	16,500
McLean	209,500	189,100	10.3	1,956,300	97,500	57,600	5.8	334,900
Mercer	64,700	45,900	9.8	448,600	15,000	2,200	7.0	15,400
Oliver	29,800	24,100	9.0	215,800	17,400	5,600	3.8	21,200
West Central	498,600	387,200	9.4	3,628,800	181,400	73,800	5.5	409,000
Eddy	39,100	36,400	12.9	469,600	41,800	30,700	10.7	327,600
Foster	57,700	52,300	16.7	871,900	66,600	57,800	11.9	686,700
Kidder	33,900	16,800	6.6	111,400	37,100	5,400	4.5	24,300
Sheridan	69,700	56,300	9.0	509,100	41,600	18,700	6.6	123,200
Stutsman	166,700	153,300	14.1	2,162,000	176,200	96,500	9.8	947,600
Wells	139,000	123,400	12.4	1,527,500	95,000	62,400	9.0	561,500
Central	506,100	438,500	12.9	5,651,500	458,300	271,500	9.8	2,670,900
Barnes	137,100	127,800	18.5	2,367,600	150,700	126,300	12.3	1,548,500
Cass	94,900	91,100	24.0	2,190,700	207,900	191,500	16.7	3,204,400
Griggs	63,200	61,300	19.5	1,192,500	56,300	51,500	16.3	837,700
Steele	65,200	62,600	26.5	1,656,200	70,400	67,500	21.4	1,441,400
Traill	48,400	47,400	33.7	1,595,800	97,400	95,800	29.6	2,836,200
East Central	408,800	390,200	23.1	9,002,800	582,700	532,600	18.5	9,868,200
Adams	86,400	51,100	7.6	390,300	27,600	7,800	3.8	29,500
Billings	32,200	19,200	7.0	134,700	9,800	2,000	4.8	9,600
Bowman	84,700	57,500	8.3	477,600	10,200	1,900	5.3	10,000
Golden Valley	64,700	36,000	6.5	233,400	16,800	1,200	3.5	4,200
Hettinger	146,200	122,400	9.9	1,213,300	57,300	29,600	5.2	153,700
Slope	79,600	68,200	9.5	651,100	17,400	6,400	4.4	28,100
Stark	105,900	78,600	8.1	636,300	52,100	20,000	5.9	118,500
Southwest	599,700	433,000	8.6	3,736,700	191,200	68,900	5.1	353,600
Burleigh	76,900	39,500	7.0	277,800	60,500	9,000	3.9	35,200
Emmons	80,500	31,900	5.4	172,100	88,800	7,500	4.9	37,100
Grant	74,500	50,600	8.5	429,300	36,000	7,100	5.0	35,600
Morton	93,500	56,900	7.9	448,800	40,000	9,100	6.9	62,500
Sioux	19,700	8,500	5.1	43,600	16,400	3,100	4.7	14,600
South Central	345,100	187,400	7.3	1,371,600	241,700	35,800	5.2	185,000
Dickey	53,300	40,900	12.7	520,700	110,100	58,500	6.2	361,700
LaMoure	99,000	87,700	14.5	1,273,200	103,100	48,300	7.1	344,300
Logan	57,900	38,100	9.9	377,800	47,300	3,100	3.6	11,200
McIntosh	66,300	29,500	6.3	185,100	67,800	4,800	4.8	22,900
Ransom	51,400	44,500	13.1	583,500	61,300	41,900	8.1	340,500
Richland	38,600	37,600	20.0	751,000	162,100	156,000	15.3	2,381,500
Sargent	51,900	39,600	12.5	496,100	80,500	49,700	7.1	352,900
Southeast	418,400	317,900	13.2	4,187,400	632,200	362,300	10.5	3,815,000
STATE	5,340,200	4,515,400	14.4	65,060,100	3,884,600	2,691,000	14.0	37,719,100

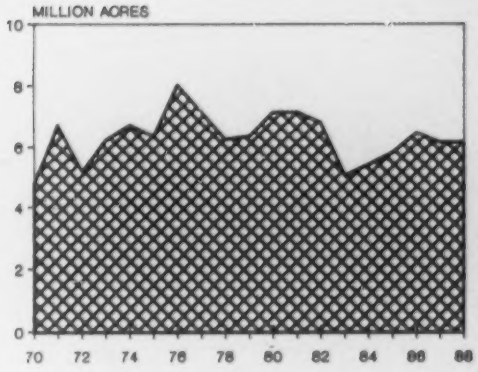
1/ See page 80 for irrigated acres.

SPRING WHEAT

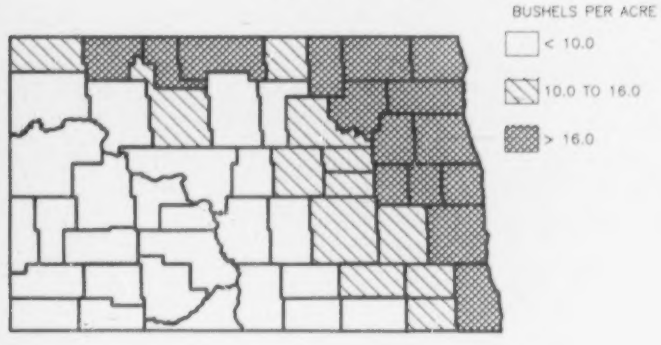
PRODUCTION
NORTH DAKOTA, 1988



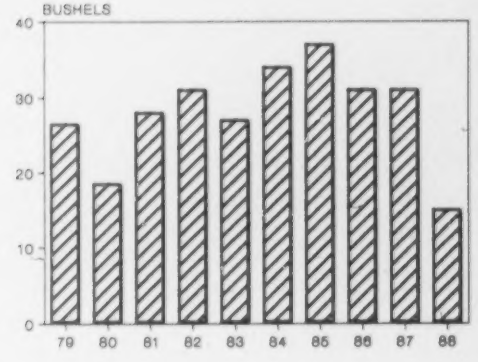
PLANTED ACRES
NORTH DAKOTA, 1970 - 88



YIELD PER HARVESTED ACRE
NORTH DAKOTA, 1988



YIELD PER HARVESTED ACRE
NORTH DAKOTA, 1979 - 88



North Dakota, 1979-88

Year	Acres Planted	Acres Harvested	Yield Per Harvested Acre	Production	Marketing Year Avg. Price	Value of Production	Value per Harvested Acre
	(Acres)	(Acres)	(Bu.)	(Bu.)	($/Bu.)	(Dols.)	(Dols.)
1979	6,400,000	6,230,000	26.5	165,095,000	3.61	595,993,000	95.67
1980	7,200,000	5,700,000	18.5	105,450,000	4.11	433,400,000	76.04
1981	7,200,000	7,050,000	28.0	197,400,000	3.63	716,562,000	101.64
1982	6,850,000	6,750,000	31.0	209,250,000	3.51	734,468,000	108.81
1983	5,100,000	5,000,000	27.0	135,000,000	3.70	499,500,000	99.90
1984	5,450,000	5,400,000	34.0	183,600,000	3.51	644,436,000	119.34
1985	5,850,000	5,730,000	37.0	212,010,000	3.34	708,113,000	123.58
1986	6,500,000	6,400,000	31.0	198,400,000	2.52	499,968,000	78.12
1987	6,200,000	6,100,000	31.0	189,100,000	2.80	529,480,000	86.80
1988	6,200,000	4,700,000	15.0	70,500,000	3.85	271,425,000	57.75

SPRING WHEAT CONT.

North Dakota, 1988 and 5-Year Average, 1983-87

District and County	1988					5-Year Average, 1983-87			
	Acres Planted	Acres Harvested	Yield Per Harvested Acre	Production		Acres Planted	Acres Harvested	Yield Per Harvested Acre	Production
				Quantity	Rank				
	(Acres)	(Acres)	(Bu.)	(Bu.)	(No.)	(Acres)	(Acres)	(Bu.)	(Bu.)
Burke	73,000	66,000	16.5	1,089,000	21	87,000	86,000	25.3	2,217,000
Divide	17,000	15,000	10.5	158,000	48	34,000	32,600	21.2	727,200
Mountrail	20,000	17,500	7.5	132,000	49	37,000	36,200	24.9	978,200
Renville	120,000	116,500	17.0	1,980,000	12	97,000	96,500	34.1	3,287,800
Ward	175,000	160,000	12.5	2,006,000	11	145,000	143,800	33.2	4,819,600
Williams	165,000	140,000	7.5	1,055,000	22	166,000	162,900	21.3	3,549,200
Northwest	570,000	515,000	12.5	6,420,000		566,000	558,000	27.5	15,579,000
Benson	56,000	31,500	12.0	378,000	36	56,000	56,000	28.1	1,571,600
Bottineau	92,000	87,500	16.5	1,444,000	17	85,800	85,200	32.1	2,767,600
McHenry	140,000	109,000	9.5	1,036,000	23	133,000	131,600	27.4	3,604,200
Pierce	75,000	38,000	9.0	342,000	38	76,200	75,400	24.5	1,848,200
Rolette	17,000	14,000	11.5	161,000	47	19,000	18,800	29.6	580,400
North Central	380,000	280,000	12.0	3,361,000		370,000	367,000	28.1	10,372,000
Cavalier	200,000	193,000	19.0	3,667,000	7	188,000	187,600	40.4	7,617,600
Grand Forks	220,000	216,000	26.7	5,763,000	1	202,000	201,200	43.9	8,834,000
Nelson	100,000	99,000	19.0	1,881,000	13	97,400	97,000	35.3	3,415,600
Pembina	220,000	195,500	22.0	4,305,000	4	218,000	218,000	45.2	9,930,000
Ramsey	91,000	88,000	17.0	1,496,000	15	96,000	94,600	33.7	3,203,600
Towner	19,000	17,500	17.0	298,000	41	22,600	22,500	34.4	742,000
Walsh	240,000	226,000	22.5	5,096,000	2	220,000	218,100	44.6	9,766,600
Northeast	1,090,000	1,035,000	21.7	22,506,000		1,044,000	1,039,000	41.8	43,509,400
Dunn	100,000	44,500	7.5	334,000	39	103,000	97,000	24.9	2,418,000
McKenzie	105,000	72,000	9.0	648,000	27	89,400	86,100	23.3	2,016,000
McLean	130,000	94,000	9.9	929,000	24	142,000	140,300	29.8	4,202,200
Mercer	70,000	41,500	9.5	395,000	35	63,600	62,000	29.2	1,828,400
Oliver	45,000	28,000	8.0	224,000	44	44,000	43,600	28.4	1,239,400
West Central	450,000	280,000	9.0	2,530,000		442,000	429,000	27.2	11,704,000
Eddy	65,000	53,000	12.0	636,000	29	57,000	56,800	27.8	1,584,400
Foster	113,000	102,000	14.5	1,479,000	16	92,000	89,800	32.5	2,922,000
Kidder	65,000	18,500	6.5	121,000	51	72,000	71,600	22.7	1,629,200
Sheridan	107,000	72,000	8.5	612,000	30	102,000	101,000	27.6	2,785,200
Stutsman	280,000	204,000	12.7	2,591,000	10	229,000	225,200	31.0	7,014,600
Wells	160,000	125,500	11.5	1,444,000	17	138,000	136,600	30.8	4,205,800
Central	790,000	575,000	12.0	6,883,000		690,000	681,000	29.5	20,141,200
Barnes	275,000	244,000	15.5	3,782,000	6	220,000	217,200	33.9	7,366,000
Cass	265,000	248,000	19.1	4,745,000	3	243,000	239,600	42.9	10,203,000
Griggs	105,000	100,000	18.0	1,800,000	14	89,000	88,400	32.9	2,917,000
Steele	130,000	125,000	24.0	3,000,000	8	113,000	112,200	38.3	4,325,200
Traill	135,000	133,000	31.0	4,123,000	5	128,000	127,600	43.6	5,570,600
East Central	910,000	850,000	20.5	17,450,000		793,000	785,000	38.7	30,381,800
Adams	93,000	47,000	7.0	330,000	40	90,000	88,000	26.3	2,316,600
Billings	36,000	18,000	6.5	117,000	52	29,600	27,200	20.7	581,400
Bowman	60,000	32,000	8.0	256,000	43	71,600	68,000	22.4	1,533,800
Golden Valley	48,000	22,000	6.0	132,000	49	47,800	44,700	20.4	940,200
Hettinger	180,000	134,000	8.8	1,181,000	20	171,000	168,200	29.6	5,004,000
Slope	78,000	61,000	9.0	549,000	32	68,000	66,100	26.4	1,751,000
Stark	135,000	86,000	7.5	645,000	28	136,000	133,800	26.8	3,599,000
Southwest	630,000	400,000	8.0	3,210,000		614,000	596,000	26.3	15,726,000
Burleigh	115,000	42,000	6.5	273,000	42	130,000	126,800	24.6	3,146,400
Emmons	165,000	38,500	5.5	212,000	45	165,400	163,300	23.7	3,901,800
Grant	100,000	55,000	8.0	440,000	34	98,000	93,700	26.1	2,451,200
Morton	125,000	62,000	7.6	474,000	33	122,000	113,200	27.3	3,120,200
Sioux	25,000	7,500	5.5	41,000	53	30,600	26,000	22.7	589,000
South Central	530,000	205,000	7.0	1,440,000		546,000	523,000	25.1	13,208,600
Dickey	120,000	79,000	9.5	751,000	26	98,000	97,200	27.2	2,628,400
LaMoure	170,000	116,000	12.0	1,392,000	19	134,000	132,800	29.7	3,944,800
Logan	96,000	38,500	9.5	366,000	37	89,000	88,600	25.7	2,283,800
McIntosh	120,000	30,500	6.0	183,000	46	109,600	107,400	23.1	2,470,600
Ransom	90,000	72,500	10.5	762,000	25	86,000	84,800	33.2	2,802,200
Richland	170,000	164,500	16.1	2,656,000	9	170,400	169,800	39.9	6,778,200
Sargent	84,000	59,000	10.0	590,000	31	68,000	67,400	31.5	2,092,000
Southeast	850,000	560,000	12.0	6,700,000		755,000	748,000	30.8	23,000,000
STATE	6,200,000	4,700,000	15.0	70,500,000		5,820,000	5,726,000	32.0	183,622,000

SPRING WHEAT CONT.

North Dakota, 1986 and 1987

District and County	1986				1987			
	Acres Planted	Acres Harvested	Yield Per Harvested Acre	Production	Acres Planted	Acres Harvested	Yield Per Harvested Acre	Production
	(Acres)	(Acres)	(Bu.)	(Bu.)	(Acres)	(Acres)	(Bu.)	(Bu.)
Burke	105,000	105,000	34.0	3,570,000	80,000	79,000	22.5	1,778,000
Divide	45,000	45,000	33.0	1,485,000	35,000	33,000	26.5	875,000
Mountrail	55,000	55,000	37.5	2,063,000	25,000	24,000	18.0	432,000
Renville	115,000	115,000	39.0	4,485,000	110,000	109,500	25.0	2,737,000
Ward	160,000	160,000	39.0	6,240,000	150,000	145,000	23.5	3,407,000
Williams	190,000	190,000	31.4	5,967,000	160,000	159,500	23.2	3,696,000
Northwest	670,000	670,000	35.5	23,810,000	560,000	550,000	23.5	12,925,000
Benson	70,000	70,000	27.0	1,890,000	50,000	50,000	24.5	1,225,000
Bottineau	105,000	105,000	35.5	3,727,000	94,000	92,000	28.0	2,576,000
McHenry	150,000	150,000	28.3	4,238,000	145,000	140,000	20.9	2,930,000
Pierce	90,000	90,000	25.0	2,250,000	86,000	84,000	20.0	1,680,000
Rolette	25,000	25,000	35.0	875,000	15,000	14,000	23.5	329,000
North Central	440,000	440,000	29.5	12,980,000	390,000	380,000	23.0	8,740,000
Cavalier	210,000	210,000	38.0	7,980,000	200,000	200,000	40.5	8,100,000
Grand Forks	225,000	225,000	39.2	8,823,000	215,000	213,000	43.0	9,159,000
Nelson	125,000	125,000	32.0	4,000,000	97,000	96,000	34.0	3,264,000
Pembina	240,000	240,000	39.0	9,360,000	225,000	225,000	46.5	10,462,000
Ramsey	110,000	105,000	31.5	3,307,000	90,000	89,000	33.5	2,982,000
Towner	20,000	20,000	31.0	620,000	23,000	22,500	36.0	810,000
Walsh	240,000	240,000	40.0	9,600,000	240,000	239,500	44.9	10,755,000
Northeast	1,170,000	1,165,000	37.5	43,690,000	1,090,000	1,085,000	42.0	45,532,000
Dunn	100,000	96,000	29.0	2,784,000	100,000	94,000	22.5	2,115,000
McKenzie	95,000	90,000	27.5	2,475,000	85,000	84,500	26.0	2,197,000
McLean	170,000	170,000	34.4	5,843,000	130,000	128,500	24.4	3,138,000
Mercer	70,000	70,000	31.0	2,170,000	65,000	64,000	26.0	1,664,000
Oliver	45,000	44,000	29.5	1,298,000	50,000	49,000	24.0	1,176,000
West Central	480,000	470,000	31.0	14,570,000	430,000	420,000	24.5	10,290,000
Eddy	70,000	70,000	28.0	1,960,000	55,000	54,000	28.0	1,512,000
Foster	105,000	104,000	32.0	3,328,000	110,000	105,000	30.5	3,202,000
Kidder	90,000	90,000	21.5	1,935,000	75,000	74,000	23.5	1,739,000
Sheridan	110,000	109,000	28.0	3,052,000	115,000	114,000	24.0	2,736,000
Stutsman	270,000	267,000	31.3	8,360,000	280,000	279,000	31.3	8,732,000
Wells	165,000	165,000	31.0	5,115,000	165,000	159,000	28.0	4,452,000
Central	810,000	805,000	29.5	23,750,000	800,000	785,000	28.5	22,373,000
Barnes	240,000	239,000	31.5	7,529,000	260,000	260,000	34.0	8,840,000
Cass	280,000	276,000	33.8	9,329,000	265,000	263,000	43.0	11,306,000
Griggs	95,000	95,000	29.5	2,802,000	105,000	102,000	30.0	3,060,000
Steele	115,000	115,000	36.0	4,140,000	125,000	122,000	35.5	4,331,000
Traill	140,000	140,000	37.0	5,180,000	135,000	133,000	41.0	5,453,000
East Central	870,000	865,000	33.5	28,980,000	890,000	880,000	37.5	32,990,000
Adams	95,000	90,000	24.0	2,160,000	110,000	107,000	28.5	3,050,000
Billings	35,000	34,000	26.0	884,000	30,000	29,000	24.5	710,000
Bowman	75,000	72,000	23.0	1,656,000	88,000	84,000	25.0	2,100,000
Golden Valley	50,000	48,000	23.0	1,104,000	57,000	56,500	28.0	1,582,000
Hettinger	190,000	188,000	30.9	5,800,000	170,000	165,000	26.9	4,446,000
Slope	75,000	74,000	26.0	1,924,000	70,000	69,500	28.5	1,981,000
Stark	140,000	134,000	28.0	3,752,000	145,000	144,000	26.5	3,816,000
Southwest	660,000	640,000	27.0	17,280,000	670,000	655,000	27.0	17,685,000
Burleigh	150,000	144,000	24.5	3,528,000	125,000	120,000	23.5	2,820,000
Emmons	175,000	171,000	21.2	3,632,000	170,000	167,500	24.3	4,071,000
Grant	105,000	98,000	24.5	2,401,000	95,000	92,500	25.0	2,312,000
Morton	130,000	118,000	30.5	3,599,000	125,000	121,000	28.0	3,388,000
Sioux	40,000	34,000	20.0	680,000	25,000	19,000	21.5	409,000
South Central	600,000	565,000	24.5	13,840,000	540,000	520,000	25.0	13,000,000
Dickey	105,000	102,000	19.5	1,990,000	110,000	109,000	28.0	3,052,000
LaMoure	130,000	127,000	25.0	3,175,000	160,000	160,000	30.0	4,800,000
Logan	90,000	89,000	26.0	2,314,000	100,000	100,000	25.0	2,500,000
McIntosh	120,000	116,000	22.0	2,552,000	125,000	121,000	22.5	2,722,000
Ransom	95,000	92,000	28.0	2,576,000	90,000	90,000	31.5	2,835,000
Richland	195,000	192,000	29.1	5,591,000	170,000	170,000	42.7	7,256,000
Sargent	65,000	62,000	21.0	1,302,000	75,000	75,000	32.0	2,400,000
Southeast	800,000	780,000	25.0	19,500,000	830,000	825,000	31.0	25,565,000
STATE	6,500,000	6,400,000	31.0	198,400,000	6,200,000	6,100,000	31.0	189,100,000

SPRING WHEAT CONT.

North Dakota, 1987 1/

District and County	Summer Fallow				Continuous Cropping			
	Acres Planted	Acres Harvested	Yield Per Harvested Acre	Production	Acres Planted	Acres Harvested	Yield Per Harvested Acre	Production
	(Acres)	(Acres)	(Bu.)	(Bu.)	(Acres)	(Acres)	(Bu.)	(Bu.)
Burke	65,400	64,500	22.3	1,437,000	14,600	14,500	23.5	341,000
Divide	30,700	28,700	26.4	757,600	4,300	4,300	27.3	117,400
Mountrail	20,800	20,300	17.8	361,300	4,200	3,700	19.1	70,700
Renville	80,300	79,900	27.1	2,163,000	29,700	29,600	19.4	574,000
Ward	86,000	86,000	26.5	2,275,000	63,700	58,700	19.1	1,118,500
Williams	149,000	148,700	23.0	3,422,900	9,000	8,800	17.6	155,100
Northwest	432,200	428,100	24.3	10,416,800	125,500	119,600	19.9	2,376,700
Benson	25,700	25,700	26.6	683,100	23,400	23,400	21.9	513,100
Bottineau	58,200	57,000	30.6	1,744,000	35,600	34,800	23.7	824,000
McHenry	84,400	83,000	22.4	1,863,000	60,300	56,700	18.6	1,053,200
Pierce	48,300	47,200	22.7	1,072,100	37,700	36,800	16.5	607,900
Rolette	6,500	5,800	24.1	139,800	8,500	8,200	23.1	189,200
North Central	223,100	218,700	25.2	5,502,000	165,500	159,900	19.9	3,187,400
Cavalier	99,000	99,000	41.8	4,134,600	101,000	101,000	39.3	3,965,400
Grand Forks	80,800	80,400	42.0	3,379,700	133,600	132,000	43.6	5,752,300
Nelson	51,400	50,900	36.3	1,847,600	45,600	45,100	31.4	1,416,400
Pembina	73,100	73,100	47.0	3,433,400	151,900	151,900	46.3	7,028,600
Ramsey	47,800	47,200	34.7	1,638,300	42,200	41,800	32.1	1,343,700
Towner	9,800	9,600	37.0	355,300	13,200	12,900	35.2	454,700
Walsh	78,500	78,200	44.0	3,437,000	161,400	161,200	45.4	7,314,000
Northeast	440,400	438,400	41.6	18,225,900	648,900	645,900	42.2	27,275,100
Dunn	68,100	65,100	24.2	1,572,900	31,900	28,900	18.8	542,100
McKenzie	73,200	72,700	23.6	1,717,400	7,000	7,000	22.2	155,600
McLean	79,800	79,100	26.8	2,120,400	48,800	48,000	20.0	960,200
Mercer	52,000	51,800	28.1	1,457,700	12,900	12,100	16.8	202,800
Oliver	32,000	31,300	27.2	852,000	17,900	17,600	18.2	320,000
West Central	305,100	300,000	25.7	7,720,400	118,500	113,600	19.2	2,180,700
Eddy	17,900	17,600	29.6	521,500	36,600	35,900	27.1	973,000
Foster	51,400	50,500	31.2	1,576,500	57,800	53,700	29.7	1,597,500
Kidder	33,000	32,400	26.9	871,800	40,900	40,500	20.2	819,300
Sheridan	65,600	65,300	26.1	1,702,700	49,400	48,700	21.2	1,033,300
Stutsman	129,900	129,900	34.3	4,450,000	149,800	148,800	28.7	4,267,900
Wells	89,100	84,700	30.8	2,606,400	75,900	74,300	24.8	1,845,600
Central	386,900	380,400	30.8	11,728,900	410,400	401,900	26.2	10,536,600
Barnes	117,000	117,000	37.3	4,363,100	142,500	142,500	31.3	4,456,900
Cass	71,600	71,400	43.7	3,121,700	191,700	189,900	42.7	8,110,300
Griggs	53,900	52,400	31.8	1,667,200	50,500	49,000	28.0	1,370,000
Steele	56,300	55,400	36.7	2,031,800	68,300	66,200	34.5	2,283,200
Traill	42,900	42,100	42.2	1,778,400	92,000	90,800	40.4	3,670,100
East Central	341,700	338,300	38.3	12,962,200	545,000	538,400	36.9	19,890,500
Adams	86,200	83,900	30.1	2,528,000	23,800	23,100	22.6	522,000
Billings	23,900	23,300	26.6	619,200	6,100	5,700	15.9	90,800
Bowman	74,400	71,000	26.3	1,867,700	13,600	13,000	17.9	232,300
Golden Valley	46,200	46,000	28.4	1,307,600	10,800	10,500	26.1	274,400
Hettinger	116,100	112,800	27.8	3,136,400	53,900	52,200	25.1	1,309,600
Slope	52,700	52,300	30.0	1,571,500	17,300	17,200	23.8	409,500
Stark	95,400	95,100	28.2	2,684,500	49,600	48,900	23.1	1,131,500
Southwest	494,900	484,400	28.3	13,714,900	175,100	170,600	23.3	3,970,100
Burleigh	62,000	59,500	26.6	1,581,500	62,900	60,400	20.4	1,234,000
Emmons	64,400	64,300	27.1	1,743,100	104,600	102,200	22.2	2,272,900
Grant	61,800	60,600	26.2	1,587,800	33,200	31,900	22.7	724,200
Morton	79,500	76,900	29.3	2,250,100	45,400	44,000	25.8	1,133,900
Sioux	13,700	10,500	24.7	259,200	10,900	8,100	16.5	133,800
South Central	281,400	271,800	27.3	7,421,700	257,000	246,600	22.3	5,498,800
Dickey	36,700	36,000	30.4	1,092,600	73,000	72,700	26.7	1,939,900
LaMoure	75,500	75,500	31.6	2,386,200	84,300	84,300	28.5	2,403,800
Logan	52,700	52,700	27.2	1,433,500	46,900	46,900	22.2	1,042,500
McIntosh	62,800	60,900	25.8	1,570,100	62,200	60,100	19.2	1,151,900
Ransom	32,900	32,900	35.4	1,166,200	56,400	56,400	29.0	1,633,800
Richland	34,000	34,000	42.1	1,431,400	136,000	136,000	42.8	5,824,600
Sargent	20,800	20,800	37.5	780,900	54,100	54,100	29.8	1,614,100
Southeast	315,400	312,800	31.5	9,860,900	512,900	510,500	30.6	15,610,600
STATE	3,221,100	3,172,900	30.7	97,553,700	2,958,800	2,907,000	31.1	90,526,500

1/ See page 81 for irrigated acres.

SPRING WHEAT CONT.

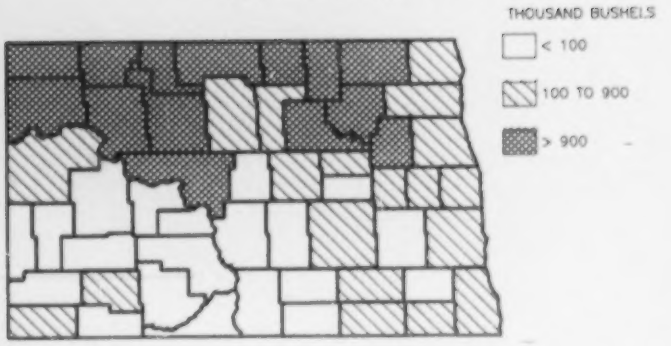
North Dakota, 1988 1/

District and County	Summer Fallow				Continuous Cropping			
	Acres Planted	Acres Harvested	Yield Per Harvested Acre	Production	Acres Planted	Acres Harvested	Yield Per Harvested Acre	Production
	(Acres)	(Acres)	(Bu.)	(Bu.)	(Acres)	(Acres)	(Bu.)	(Bu.)
Burke	60,200	56,500	17.5	987,900	12,800	9,500	10.6	101,100
Divide	15,300	14,500	10.6	153,000	1,700	500	10.0	5,000
Mountrail	17,600	16,300	7.6	123,200	2,400	1,200	7.3	8,800
Renville	87,600	85,100	18.8	1,598,800	32,400	31,400	12.1	381,200
Ward	101,700	96,900	14.4	1,398,800	73,100	62,900	9.6	603,200
Williams	156,900	138,200	7.5	1,032,900	7,000	800	7.6	6,100
Northwest	439,300	407,500	13.0	5,294,600	129,400	106,300	10.4	1,105,400
Benson	34,100	24,500	12.6	309,200	21,200	6,300	8.5	53,400
Bottineau	61,700	59,200	18.5	1,092,300	30,000	28,000	12.2	341,000
McHenry	82,600	72,400	10.7	777,300	57,000	36,200	6.9	249,900
Pierce	47,000	31,300	9.5	296,300	28,000	6,700	6.8	45,700
Rolette	8,500	7,000	11.6	81,200	8,500	7,000	11.4	79,800
North Central	233,900	194,400	13.1	2,556,300	144,700	84,200	9.1	769,800
Cavalier	104,000	101,700	22.4	2,279,200	96,000	91,300	15.2	1,387,800
Grand Forks	88,700	87,800	30.7	2,694,100	130,600	127,500	23.8	3,037,400
Nelson	48,400	47,900	20.8	997,100	51,600	51,100	17.3	883,900
Pembina	69,500	68,500	24.6	1,684,900	150,500	127,000	20.6	2,620,100
Ramsey	48,600	47,600	19.7	937,400	42,400	40,400	13.8	558,600
Towner	6,900	6,400	19.6	125,600	12,100	11,100	15.5	172,400
Walsh	85,000	83,800	24.3	2,033,600	154,900	142,100	21.5	3,057,400
Northeast	451,100	443,700	24.2	10,751,900	638,100	590,500	19.8	11,717,600
Dunn	70,000	40,100	7.9	316,800	30,000	4,400	3.9	17,200
McKenzie	86,600	64,300	7.6	488,000	12,400	1,900	4.5	8,600
McLean	80,900	72,100	10.8	778,100	48,100	21,000	6.3	131,500
Mercer	57,100	39,600	9.6	382,000	12,900	1,900	6.8	13,000
Oliver	28,400	22,800	9.0	205,800	16,600	5,200	3.5	18,200
West Central	323,000	238,900	9.1	2,170,700	120,000	34,400	5.5	188,500
Eddy	30,400	28,000	12.7	355,200	34,000	24,400	11.0	268,800
Foster	52,400	48,000	16.9	811,700	60,100	53,500	12.2	652,300
Kidder	29,300	13,600	6.7	90,500	34,800	4,300	4.7	20,000
Sheridan	66,300	53,900	9.1	491,700	40,700	18,100	6.6	120,300
Stutsman	134,400	125,500	14.3	1,791,000	145,100	78,100	10.2	792,800
Wells	97,800	87,200	12.5	1,093,900	62,200	38,300	9.1	350,100
Central	410,600	356,200	13.0	4,634,000	376,900	216,700	10.2	2,204,300
Barnes	130,900	123,000	18.6	2,282,100	143,400	120,300	12.3	1,480,300
Cass	82,400	79,500	24.0	1,906,000	181,600	167,500	16.8	2,806,100
Griggs	56,000	54,200	19.5	1,054,500	49,000	45,800	16.3	745,500
Steele	62,800	60,500	26.7	1,613,600	67,000	64,300	21.4	1,378,400
Traill	44,700	44,000	33.8	1,485,000	90,200	88,900	29.6	2,634,000
East Central	376,800	361,200	23.1	8,341,200	531,200	486,800	18.6	9,044,300
Adams	69,800	42,000	7.5	314,600	23,200	5,000	3.1	15,400
Billings	28,300	16,800	6.8	113,500	7,700	1,200	2.9	3,500
Bowman	52,900	31,000	8.0	248,300	7,000	900	6.1	5,500
Golden Valley	39,700	21,600	6.0	130,500	8,300	400	3.8	1,500
Hettinger	127,600	107,200	9.7	1,043,000	52,400	26,800	5.1	138,000
Slope	66,300	57,500	9.3	537,100	11,700	3,500	3.4	11,900
Stark	87,800	66,800	7.9	530,600	47,200	19,200	6.0	114,400
Southwest	472,400	342,900	8.5	2,917,600	157,500	57,000	5.1	290,200
Burleigh	63,500	33,900	7.1	240,700	51,400	8,100	4.0	32,300
Emmons	77,700	30,600	5.4	164,700	86,600	7,300	5.0	36,500
Grant	68,400	48,700	8.4	411,300	31,600	6,300	4.6	28,700
Morton	87,500	53,700	7.8	419,900	37,500	8,300	6.5	54,100
Sioux	13,100	4,500	5.2	23,200	11,500	2,700	4.8	13,000
South Central	310,200	171,400	7.4	1,259,800	218,600	32,700	5.0	164,600
Dickey	41,200	35,000	13.6	475,900	78,200	43,400	6.0	259,500
LaMoure	81,600	73,900	14.8	1,091,300	88,000	41,800	7.0	293,900
Logan	53,000	35,700	10.0	356,400	43,000	2,800	3.4	9,600
McIntosh	59,200	26,500	6.2	164,300	60,800	4,000	4.7	18,700
Ransom	37,400	34,500	13.3	459,300	52,300	37,700	7.8	293,700
Richland	36,200	35,400	19.6	695,600	133,800	129,100	15.2	1,960,400
Sargent	29,700	25,100	14.0	351,200	54,200	33,800	7.0	236,500
Southeast	338,300	266,100	13.5	3,594,000	510,300	292,600	10.5	3,072,300
STATE	3,355,600	2,782,300	14.9	41,520,100	2,826,700	1,901,200	15.0	28,557,000

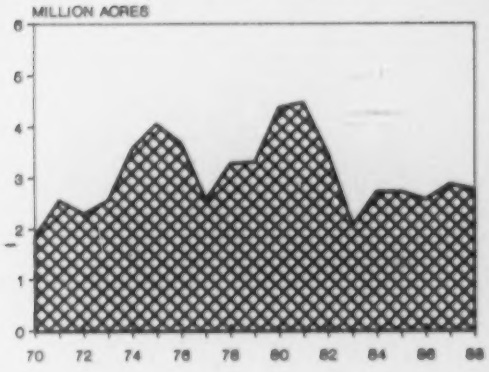
1/ See page 80 for irrigated acres.

DURUM WHEAT

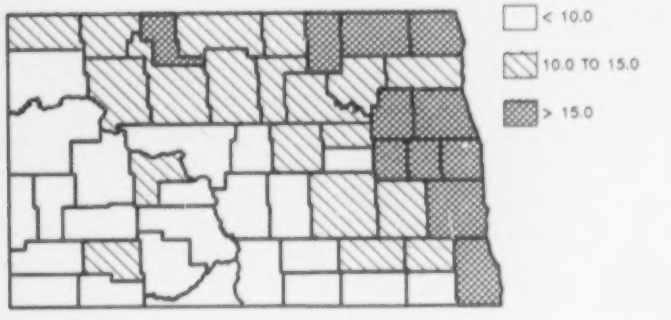
PRODUCTION
NORTH DAKOTA, 1988



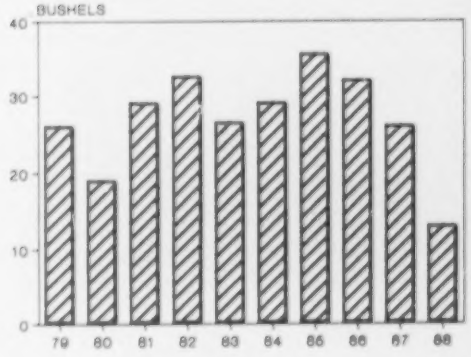
PLANTED ACRES
NORTH DAKOTA, 1970 - 88



YIELD PER HARVESTED ACRE
NORTH DAKOTA, 1988



YIELD PER HARVESTED ACRE
NORTH DAKOTA, 1979 - 88



North Dakota, 1979-88

Year	Acres Planted	Acres Harvested	Yield Per Harvested Acre	Production	Marketing Year Avg. Price	Value of Production	Value per Harvested Acre
	(Acres)	(Acres)	(Bu.)	(Bu.)	($/Bu.)	(Dols.)	(Dols.)
1979	3,330,000	3,250,000	26.0	84,500,000	4.41	372,645,000	114.66
1980	4,400,000	3,850,000	19.0	73,150,000	5.10	373,065,000	96.90
1981	4,500,000	4,410,000	29.0	127,890,000	3.49	446,336,000	101.21
1982	3,500,000	3,410,000	32.5	110,825,000	3.42	379,022,000	111.15
1983	2,090,000	2,050,000	26.5	54,325,000	3.97	215,670,000	105.20
1984	2,750,000	2,710,000	29.0	78,590,000	3.70	290,783,000	107.30
1985	2,750,000	2,690,000	35.5	95,495,000	3.16	301,764,000	112.18
1986	2,600,000	2,500,000	32.0	80,000,000	2.66	212,800,000	85.12
1987	2,900,000	2,850,000	26.0	74,100,000	3.38	250,458,000	87.88
1988	2,800,000	2,400,000	13.0	31,200,000	4.85	151,320,000	63.05

DURUM WHEAT CONT.

North Dakota, 1988 and 5-Year Average, 1983-87

District and County	1988					5-Year Average, 1983-87			
	Acres Planted	Acres Harvested	Yield Per Harvested Acre	Production		Acres Planted	Acres Harvested	Yield Per Harvested Acre	Production
				Quantity	Rank				
	(Acres)	(Acres)	(Bu.)	(Bu.)	(No.)	(Acres)	(Acres)	(Bu.)	(Bu.)
Burke	80,000	70,500	15.0	1,058,000	12	62,400	61,800	27.4	1,674,000
Divide	175,000	159,000	12.0	1,908,000	7	151,700	147,300	23.2	3,473,800
Mountrail	195,000	175,000	11.3	1,978,000	6	176,800	173,800	27.2	4,678,000
Renville	60,000	56,000	17.0	952,000	14	69,800	69,400	31.6	2,204,800
Ward	190,000	165,000	12.0	1,980,000	5	195,600	190,600	30.9	5,879,200
Williams	130,000	114,500	8.5	974,000	13	111,500	109,100	21.9	2,334,800
Northwest	830,000	740,000	12.0	8,850,000		767,800	752,000	27.1	20,244,600
Benson	180,000	120,000	10.5	1,260,000	11	151,600	149,500	29.2	4,371,200
Bottineau	220,000	200,000	14.6	2,921,000	2	194,400	191,100	31.5	5,971,400
McHenry	30,000	23,000	10.5	242,000	22	32,000	30,800	28.4	894,000
Pierce	70,000	53,500	10.5	562,000	17	66,200	65,100	26.3	1,718,400
Rolette	110,000	103,500	14.5	1,500,000	8	93,800	91,900	30.2	2,779,800
North Central	610,000	500,000	13.0	6,485,000		538,000	528,400	29.8	15,734,800
Cavalier	140,000	134,500	18.0	2,421,000	3	120,000	117,400	37.2	4,459,200
Grand Forks	10,000	9,500	21.5	204,000	23	12,400	12,300	41.8	528,400
Nelson	90,000	84,000	16.5	1,386,000	9	85,600	84,300	33.3	2,825,200
Pembina	7,000	6,500	22.0	143,000	29	3,000	3,000	42.8	127,200
Ramsey	170,000	158,500	15.0	2,378,000	4	142,800	140,500	31.8	4,476,200
Towner	210,000	200,000	15.8	3,162,000	1	188,800	184,300	30.7	5,720,800
Walsh	23,000	22,000	14.0	308,000	20	31,400	30,200	37.2	1,148,600
Northeast	650,000	615,000	16.3	10,002,000		584,000	572,000	33.3	19,285,600
Dunn	3,000	1,900	8.4	16,000	48	5,100	4,900	26.8	126,400
McKenzie	33,000	19,000	8.0	152,000	28	46,200	44,700	24.7	1,101,600
McLean	174,000	151,500	9.0	1,370,000	10	155,500	152,900	28.8	4,419,600
Mercer	8,000	6,000	10.5	63,000	39	12,300	12,200	31.6	396,600
Oliver	2,000	1,600	7.5	12,000	49	500	500	30.7	15,200
West Central	220,000	180,000	9.0	1,613,000		219,600	215,200	28.2	6,059,400
Eddy	14,000	12,500	11.0	138,000	30	14,600	14,400	27.0	393,000
Foster	9,000	6,500	9.5	62,000	40	15,800	15,300	30.7	483,200
Kidder	6,500	4,000	6.0	24,000	44	16,200	15,900	23.3	380,800
Sheridan	2,500	1,500	6.0	9,000	50	7,300	7,200	27.0	200,200
Stutsman	59,000	43,000	11.0	473,000	18	95,200	91,500	29.8	2,777,200
Wells	69,000	57,500	10.6	610,000	15	65,100	64,000	30.9	1,981,600
Central	160,000	125,000	10.5	1,316,000		214,200	208,400	29.5	6,216,000
Barnes	8,500	7,000	13.0	91,000	35	22,200	21,700	32.8	730,800
Cass	33,500	31,000	18.5	575,000	16	27,400	26,600	43.7	1,209,000
Griggs	13,000	11,500	17.5	201,000	24	10,700	10,600	32.4	347,800
Steele	5,500	5,200	19.8	103,000	33	6,300	6,300	35.0	224,200
Traill	8,500	8,300	31.0	257,000	21	6,200	6,100	40.5	246,000
East Central	69,000	63,000	19.5	1,227,000		72,800	71,200	37.4	2,757,800
Adams	4,000	3,300	6.4	21,000	46	10,600	10,100	27.9	281,200
Billings	1,000	700	8.6	6,000	52	100	100	20.0	2,000
Bowman	21,500	18,000	8.5	153,000	27	18,800	17,800	26.5	475,800
Golden Valley	17,500	10,500	6.5	68,000	38	13,800	12,800	24.7	312,800
Hettinger	19,000	17,000	10.5	179,000	26	21,900	21,000	33.1	701,600
Slope	13,000	11,000	9.0	99,000	34	10,400	10,000	29.2	292,200
Stark	14,000	9,500	7.5	71,000	37	11,400	11,100	29.9	331,200
Southwest	90,000	70,000	8.5	597,000		87,000	83,000	28.7	2,396,800
Burleigh	16,500	5,500	6.4	35,000	41	9,500	9,200	26.6	247,800
Emmons	4,000	1,300	5.4	7,000	51	4,200	4,000	21.3	87,600
Grant	1,000	500	8.0	4,000	53	3,300	3,200	25.1	80,800
Morton	6,000	3,500	8.9	31,000	42	3,700	3,500	24.1	83,600
Sioux	8,500	4,200	5.0	21,000	46	5,000	4,700	21.9	103,800
South Central	36,000	15,000	6.5	98,000		25,600	24,600	24.6	603,600
Dickey	25,000	16,000	7.0	112,000	32	19,000	18,100	27.9	529,000
LaMoure	26,000	17,000	11.5	196,000	25	29,500	28,000	28.0	815,200
Logan	8,500	2,600	8.5	22,000	45	10,000	9,700	25.2	255,400
McIntosh	13,500	3,800	6.6	25,000	43	16,200	15,700	23.0	387,600
Ransom	10,000	6,600	11.5	76,000	36	5,000	4,800	33.6	165,800
Richland	29,000	28,000	16.3	455,000	19	11,500	11,400	40.5	483,200
Sargent	23,000	18,000	7.0	126,000	31	17,800	17,400	32.1	567,200
Southeast	135,000	92,000	11.0	1,012,000		109,000	105,200	29.4	3,203,400
STATE	2,800,000	2,400,000	13.0	31,200,000		2,618,000	2,560,000	29.8	76,502,000

DURUM WHEAT CONT.

North Dakota, 1986 and 1987

District and County	1986				1987			
	Acres Planted	Acres Harvested	Yield Per Harvested Acre	Production	Acres Planted	Acres Harvested	Yield Per Harvested Acre	Production
	(Acres)	(Acres)	(Bu.)	(Bu.)	(Acres)	(Acres)	(Bu.)	(Bu.)
Burke	55,000	53,500	34.0	1,819,000	75,000	74,500	23.5	1,751,000
Divide	150,000	147,000	34.5	5,070,000	165,000	161,000	30.0	4,830,000
Mountrail	175,000	173,000	38.0	6,569,000	200,000	198,000	19.4	3,850,000
Renville	65,000	64,500	34.5	2,225,000	70,000	69,500	21.5	1,494,000
Ward	210,000	209,000	35.5	7,412,000	210,000	193,000	18.0	3,474,000
Williams	85,000	83,000	34.0	2,820,000	120,000	119,000	25.0	2,975,000
Northwest	740,000	730,000	35.5	25,915,000	840,000	815,000	22.5	18,374,000
Benson	145,000	140,000	29.5	4,130,000	175,000	174,500	25.5	4,450,000
Bottineau	220,000	215,000	35.2	7,558,000	210,000	207,500	21.7	4,498,000
McHenry	31,000	27,000	30.5	824,000	30,000	29,000	18.0	522,000
Pierce	64,000	62,000	26.5	1,643,000	70,000	68,500	19.0	1,302,000
Rolette	110,000	106,000	32.5	3,445,000	105,000	102,500	25.5	2,614,000
North Central	570,000	550,000	32.0	17,600,000	590,000	582,000	23.0	13,386,000
Cavalier	120,000	112,000	31.0	3,472,000	145,000	144,000	38.5	5,544,000
Grand Forks	12,000	12,000	37.5	450,000	13,000	12,700	40.0	508,000
Nelson	79,000	77,000	29.5	2,272,000	105,000	103,500	31.0	3,209,000
Pembina	1,000	1,000	44.0	44,000	6,000	6,000	42.0	252,000
Ramsey	165,000	158,000	29.5	4,661,000	175,000	174,500	28.2	4,923,000
Towner	210,000	198,000	26.8	5,299,000	210,000	209,500	30.0	6,285,000
Walsh	33,000	32,000	28.5	912,000	26,000	25,800	36.0	929,000
Northeast	620,000	590,000	29.0	17,110,000	680,000	676,000	32.0	21,650,000
Dunn	5,500	4,500	30.0	135,000	6,500	6,300	19.5	123,000
McKenzie	46,000	44,000	34.0	1,496,000	56,000	54,500	22.0	1,199,000
McLean	165,000	163,000	33.3	5,436,000	195,000	193,000	19.9	3,844,000
Mercer	13,000	13,000	35.0	455,000	12,500	12,200	23.5	287,000
Oliver	500	500	32.0	16,000	---	---	---	---
West Central	230,000	225,000	33.5	7,538,000	270,000	266,000	20.5	5,453,000
Eddy	8,000	7,500	28.5	214,000	15,000	14,700	25.0	367,000
Foster	14,000	13,000	26.5	344,000	9,000	8,700	27.0	235,000
Kidder	8,000	7,000	19.0	133,000	7,000	6,700	24.5	164,000
Sheridan	6,000	5,500	30.0	165,000	6,000	5,900	22.0	130,000
Stutsman	95,000	89,000	30.0	2,667,000	75,000	74,500	30.7	2,284,000
Wells	39,000	38,000	31.5	1,197,000	68,000	67,500	28.0	1,890,000
Central	170,000	160,000	29.5	4,720,000	180,000	178,000	28.5	5,070,000
Barnes	17,000	15,500	31.5	488,000	15,000	14,800	31.5	466,000
Cass	25,000	22,000	32.5	715,000	34,000	33,800	42.7	1,443,000
Griggs	7,500	7,000	25.0	175,000	12,000	11,800	30.0	354,000
Steele	4,500	4,500	34.0	153,000	8,000	7,900	28.5	225,000
Traill	6,000	6,000	24.5	147,000	11,000	10,700	37.0	396,000
East Central	60,000	55,000	30.5	1,678,000	80,000	79,000	36.5	2,884,000
Adams	10,500	8,300	29.0	241,000	4,000	4,000	30.0	120,000
Bowman	20,500	20,000	29.5	590,000	17,000	16,600	28.0	465,000
Golden Valley	10,000	9,200	29.5	271,000	17,000	16,900	28.0	473,000
Hettinger	22,500	22,000	35.2	774,000	31,000	29,000	25.0	726,000
Slope	8,500	8,000	30.0	240,000	16,000	15,700	32.5	510,000
Stark	13,000	12,500	35.5	444,000	15,000	14,800	28.5	422,000
Southwest	85,000	80,000	32.0	2,560,000	100,000	97,000	28.0	2,716,000
Burleigh	10,000	10,000	29.5	295,000	13,000	12,500	27.0	338,000
Emmons	4,400	3,500	20.9	73,000	5,000	5,000	21.0	105,000
Grant	2,400	2,300	27.4	63,000	4,500	4,400	25.0	110,000
Morton	1,900	1,200	25.0	30,000	5,000	4,900	26.5	130,000
Sioux	6,300	6,000	19.0	114,000	7,500	7,200	18.5	133,000
South Central	25,000	23,000	25.0	575,000	35,000	34,000	24.0	816,000
Dickey	32,000	29,000	29.3	851,000	13,000	12,200	21.5	262,000
LaMoure	24,000	19,200	24.0	461,000	25,000	24,900	27.0	672,000
Logan	6,700	5,300	27.0	143,000	10,000	9,800	25.5	250,000
McIntosh	13,000	11,000	21.0	231,000	9,000	8,600	21.5	185,000
Ransom	3,800	3,500	30.0	105,000	8,000	7,700	32.5	250,000
Richland	8,500	7,900	30.5	241,000	29,000	29,000	42.5	1,232,000
Sargent	12,000	11,100	24.5	272,000	31,000	30,800	29.2	900,000
Southeast	100,000	87,000	26.5	2,304,000	125,000	123,000	30.5	3,751,000
STATE	2,600,000	2,500,000	32.0	80,000,000	2,900,000	2,850,000	26.0	74,100,000

DURUM WHEAT CONT.

North Dakota, 1987 1/

District and County	Summer Fallow				Continuous Cropping			
	Acres Planted	Acres Harvested	Yield Per Harvested Acre	Production	Acres Planted	Acres Harvested	Yield Per Harvested Acre	Production
	(Acres)	(Acres)	(Bu.)	(Bu.)	(Acres)	(Acres)	(Bu.)	(Bu.)
Burke	64,000	63,500	24.2	1,536,300	11,000	11,000	19.5	214,700
Divide	152,100	148,100	30.2	4,479,300	11,400	11,400	23.5	268,200
Mountrail	170,400	170,100	20.1	3,420,100	29,600	27,900	15.4	429,900
Renville	45,800	45,600	24.3	1,106,000	24,200	23,900	16.2	388,000
Ward	123,500	112,900	19.8	2,235,900	86,500	80,100	15.5	1,238,100
Williams	115,900	114,900	24.7	2,837,600	2,300	2,300	19.7	45,200
Northwest	671,700	655,100	23.8	15,615,200	165,000	156,600	16.5	2,584,100
Benson	97,000	96,700	27.1	2,620,500	77,600	77,400	23.4	1,812,900
Bottineau	115,300	115,300	24.3	2,803,700	94,700	92,200	18.4	1,694,300
McHenry	16,100	15,600	20.9	325,700	13,900	13,400	14.6	196,300
Pierce	42,100	42,100	21.1	887,600	27,900	26,400	15.7	414,400
Rolette	59,200	59,000	29.5	1,741,200	45,800	43,500	20.1	872,800
North Central	329,700	328,700	25.5	8,378,700	259,900	252,900	19.7	4,990,700
Cavalier	78,700	78,300	40.2	3,148,600	66,300	65,700	36.5	2,395,400
Grand Forks	3,500	3,400	33.0	112,100	9,500	9,300	42.6	395,900
Nelson	48,300	47,600	31.8	1,515,400	56,700	55,900	30.3	1,693,600
Pembina	1,800	1,800	46.7	84,000	4,200	4,200	40.0	168,000
Ramsey	95,700	95,300	29.9	2,850,300	79,300	79,200	26.2	2,072,700
Towner	110,700	110,400	30.8	3,397,100	99,300	99,100	29.1	2,887,900
Walsh	7,500	7,400	34.1	252,000	18,500	18,400	36.8	677,000
Northeast	346,200	344,200	33.0	11,359,500	333,800	331,800	31.0	10,290,500
Dunn	4,900	4,700	20.2	95,100	1,600	1,600	17.4	27,900
McKenzie	47,600	46,300	22.6	1,047,100	8,400	8,200	18.5	151,900
McLean	130,300	129,000	22.1	2,852,100	64,200	63,500	15.3	971,900
Mercer	8,800	8,700	26.3	229,000	3,700	3,500	16.6	58,000
West Central	191,600	188,700	22.4	4,223,300	77,900	76,800	15.8	1,209,700
Eddy	6,000	5,900	25.6	150,800	9,000	8,800	24.6	216,200
Foster	3,200	3,200	30.2	96,500	5,800	5,500	25.2	138,500
Kidder	2,800	2,700	29.5	79,600	4,200	4,000	21.1	84,400
Sheridan	3,000	3,000	23.5	70,500	3,000	2,900	20.5	59,500
Stutsman	29,400	29,400	34.9	1,025,500	45,600	45,100	27.9	1,258,500
Wells	34,900	34,600	31.0	1,073,400	33,100	32,900	24.8	816,600
Central	79,300	78,800	31.7	2,496,300	100,700	99,200	25.9	2,573,700
Barnes	3,800	3,700	37.2	137,500	11,200	11,100	29.6	328,500
Cass	4,800	4,800	38.5	185,000	29,200	29,000	43.4	1,258,000
Griggs	5,500	5,400	32.2	174,100	6,400	6,300	27.9	175,900
Steele	1,700	1,700	34.2	58,200	6,200	6,100	26.5	161,800
Traill	2,700	2,700	35.0	94,500	8,300	8,000	37.7	301,500
East Central	18,500	18,300	35.5	649,300	61,300	60,500	36.8	2,225,700
Adams	2,900	2,900	31.0	89,900	1,100	1,100	27.4	30,100
Bowman	14,100	13,800	29.9	412,200	2,900	2,800	18.9	52,800
Golden Valley	15,300	15,200	28.4	431,800	1,700	1,700	24.2	41,200
Hettinger	23,300	21,800	25.7	559,400	7,700	7,200	23.1	166,600
Slope	12,000	11,800	33.6	396,900	4,000	3,900	29.0	113,100
Stark	13,200	13,000	29.5	383,700	1,800	1,800	21.3	38,300
Southwest	80,800	78,500	29.0	2,273,900	19,200	18,500	23.9	442,100
Burleigh	5,800	5,800	29.1	169,000	7,200	6,700	25.2	169,000
Emmons	1,800	1,800	19.6	35,200	3,200	3,200	21.8	69,800
Grant	2,500	2,400	24.0	57,600	2,000	2,000	26.2	52,400
Morton	2,800	2,700	30.4	82,200	2,200	2,200	21.7	47,800
Sioux	3,800	3,600	19.5	70,300	3,700	3,600	17.4	62,700
South Central	16,700	16,300	25.4	414,300	18,300	17,700	22.7	401,700
Dickey	5,100	4,400	23.7	104,100	7,500	7,400	18.5	136,700
LaMoure	8,900	8,800	30.5	268,000	15,800	15,800	24.6	389,000
Logan	3,800	3,800	29.2	111,100	6,200	6,000	23.2	138,900
McIntosh	3,300	3,300	25.4	83,800	5,700	5,300	19.1	101,200
Ransom	2,100	2,100	30.1	63,300	5,900	5,600	33.3	186,700
Richland	2,900	2,900	38.0	110,200	26,100	26,100	43.0	1,121,800
Sargent	5,300	5,300	36.0	190,900	25,700	25,500	27.8	709,100
Southeast	31,400	30,600	30.4	931,400	92,900	91,700	30.4	2,783,400
STATE	1,765,900	1,739,200	26.6	46,341,900	1,129,000	1,105,700	24.9	27,501,600

1/ See page 81 for irrigated acres.

DURUM WHEAT CONT.

North Dakota, 1988 1/

District and County	Summer Fallow				Continuous Cropping			
	Acres Planted	Acres Harvested	Yield Per Harvested Acre	Production	Acres Planted	Acres Harvested	Yield Per Harvested Acre	Production
	(Acres)	(Acres)	(Bu.)	(Bu.)	(Acres)	(Acres)	(Bu.)	(Bu.)
Burke	70,200	63,800	15.6	998,200	9,800	6,700	8.9	59,800
Divide	163,500	151,400	12.0	1,816,400	9,400	5,500	7.9	43,300
Mountrail	158,700	143,600	12.0	1,724,500	36,300	31,400	8.1	253,500
Renville	46,800	43,900	18.5	812,900	13,200	12,100	11.5	139,100
Ward	117,800	107,400	13.8	1,485,000	72,000	57,400	8.6	491,000
Williams	119,300	109,800	8.2	900,000	7,900	2,200	3.0	6,500
Northwest	676,300	619,900	12.5	7,737,000	148,600	115,300	8.6	993,200
Benson	114,500	91,500	11.2	1,025,500	65,200	28,300	8.2	230,900
Bottineau	134,000	123,200	15.7	1,933,000	86,000	76,800	12.9	988,000
McHenry	18,800	15,500	12.1	187,900	11,200	7,500	7.2	54,100
Pierce	49,200	42,100	10.3	433,500	20,800	11,400	11.3	128,500
Rolette	61,900	58,300	15.8	919,500	48,100	45,200	12.8	580,500
North Central	378,400	330,600	13.6	4,499,400	231,300	169,200	11.7	1,982,000
Cavalier	81,800	78,500	20.6	1,614,700	58,200	56,000	14.4	806,300
Grand Forks	1,900	1,800	21.3	38,400	8,100	7,700	21.5	165,600
Nelson	48,900	46,800	17.8	833,400	41,100	37,200	14.9	552,600
Pembina	2,400	2,300	22.6	51,900	4,600	4,200	21.7	91,100
Ramsey	91,000	86,200	17.4	1,502,300	79,000	72,300	12.1	875,700
Towner	125,000	119,800	17.3	2,069,500	85,000	80,200	13.6	1,092,500
Walsh	7,400	7,100	18.5	131,500	15,600	14,900	11.8	176,500
Northeast	358,400	342,500	18.2	6,241,700	291,600	272,500	13.8	3,760,300
Dunn	2,400	1,600	8.9	14,200	600	300	6.0	1,800
McKenzie	29,700	17,700	8.0	142,400	3,200	1,200	6.6	7,900
McLean	127,500	116,000	10.1	1,167,000	46,100	35,100	5.6	195,800
Mercer	7,000	5,700	10.6	60,600	1,000	300	8.0	2,400
Oliver	1,300	1,200	7.5	9,000	700	400	7.5	3,000
West Central	167,900	142,200	9.8	1,393,200	51,600	37,300	5.7	210,900
Eddy	7,000	6,800	13.0	88,100	7,000	5,700	8.8	49,900
Foster	3,000	2,400	12.6	30,200	6,000	4,100	7.8	31,800
Kidder	4,200	2,800	6.6	18,500	2,200	1,100	3.9	4,300
Sheridan	2,000	1,300	6.2	8,000	500	200	5.0	1,000
Stutsman	29,400	25,100	12.8	322,100	29,600	17,900	8.4	150,900
Wells	38,000	34,200	11.9	406,300	31,000	23,300	8.7	203,700
Central	83,600	72,600	12.0	873,200	76,300	52,300	8.4	441,600
Barnes	1,800	1,600	19.4	31,100	6,700	5,400	11.1	59,900
Cass	7,400	7,000	23.2	162,300	25,100	23,000	16.2	372,300
Griggs	5,700	5,600	17.5	97,800	6,800	5,400	16.5	89,200
Steele	2,100	2,000	20.0	40,000	3,400	3,200	19.7	63,000
Traill	1,800	1,800	36.7	66,000	6,700	6,500	29.4	191,000
East Central	18,800	18,000	22.1	397,200	48,700	43,500	17.8	775,400
Adams	3,600	3,200	6.4	20,400	400	100	6.0	600
Billings	900	700	8.6	6,000	100	0	0.0	0
Bowman	18,600	17,300	8.7	150,900	2,900	700	3.0	2,100
Golden Valley	15,600	10,200	6.6	67,100	1,900	300	3.0	900
Hettinger	15,400	14,200	11.5	163,300	3,600	2,800	5.6	15,700
Slope	10,200	8,800	9.9	87,400	2,800	2,200	5.3	11,600
Stark	11,500	8,800	7.7	67,800	2,500	700	4.6	3,200
Southwest	75,800	63,200	8.9	562,900	14,200	6,800	5.0	34,100
Burleigh	10,200	5,000	6.7	33,500	6,300	500	3.0	1,500
Emmons	2,300	1,100	5.8	6,400	1,700	200	3.0	600
Grant	900	500	8.0	4,000	100	0	0.0	0
Morton	5,100	3,000	9.1	27,300	900	500	7.4	3,700
Sioux	4,500	3,800	5.1	19,400	4,000	400	4.0	1,600
South Central	23,000	13,400	6.8	90,600	13,000	1,600	4.6	7,400
Dickey	5,000	3,900	8.1	31,700	20,000	12,100	6.6	80,300
LaMoure	13,100	10,800	13.7	147,800	12,900	6,200	7.8	48,200
Logan	4,700	2,400	8.9	21,400	3,800	200	3.0	600
McIntosh	7,000	3,000	6.9	20,800	6,500	800	5.3	4,200
Ransom	3,800	2,600	11.8	30,600	6,200	4,000	11.4	45,400
Richland	1,500	1,500	24.9	37,400	27,500	26,500	15.8	417,600
Sargent	6,900	5,500	8.9	49,000	16,100	12,500	6.2	77,000
Southeast	42,000	29,700	11.4	338,700	93,000	62,300	10.8	673,300
STATE	1,824,200	1,632,100	13.6	22,133,900	968,300	760,800	11.7	8,878,200

1/ See page 80 for irrigated acres.

WINTER WHEAT

North Dakota, 1988 and 1987

District and County	1988 Acres Planted	1988 Acres Harvested	1988 Yield Per Harvested Acre	1988 Production Quantity	1988 Production Rank	1987 Acres Planted	1987 Acres Harvested	1987 Yield Per Harvested Acre	1987 Production
	(Acres)	(Acres)	(Bu.)	(Bu.)	(No.)	(Acres)	(Acres)	(Bu.)	(Bu.)
Burke	1,000	400	9.5	3,800	41	1,200	1,200	25.0	30,000
Divide	2,200	1,600	14.0	22,400	25	4,300	4,100	26.0	106,600
Mountrail	3,300	2,300	15.0	34,500	21	1,500	1,400	21.5	30,100
Renville	---	---	---	---	--	---	---	---	---
Ward	1,500	1,300	11.0	14,300	32	1,900	1,700	29.6	50,300
Williams	9,000	6,500	9.0	58,500	10	6,600	6,300	24.0	151,000
Northwest	17,000	12,100	11.0	133,500		15,500	14,700	25.0	368,000
Benson	1,000	500	14.0	7,000	36	1,300	1,200	21.7	26,000
Bottineau	9,000	7,500	16.5	123,800	3	7,000	6,700	30.0	201,000
McHenry	2,000	1,500	8.0	12,000	33	4,000	3,700	22.4	83,000
Pierce	500	300	9.7	2,900	42	400	200	25.0	5,000
Rolette	---	---	---	---	--	800	700	22.9	16,000
North Central	12,500	9,800	14.9	145,700		13,500	12,500	26.5	331,000
Cavalier	3,500	3,300	22.0	72,600	7	300	300	41.7	12,500
Grand Forks	3,100	2,900	25.5	74,000	6	2,400	2,300	44.5	102,400
Nelson	700	600	30.5	18,300	30	800	700	35.0	24,500
Pembina	200	100	21.0	2,100	45	---	---	---	---
Ramsey	1,000	900	32.0	28,800	24	1,800	1,600	42.0	67,200
Towner	1,500	1,000	14.5	14,500	31	2,800	2,700	38.4	103,700
Walsh	---	---	---	---	--	1,900	1,800	41.5	74,700
Northeast	10,000	8,800	23.9	210,300		10,000	9,400	41.0	385,000
Dunn	3,700	1,400	6.5	9,100	35	1,600	1,200	32.5	39,000
McKenzie	7,500	3,600	11.0	39,600	14	6,200	5,900	29.5	174,100
McLean	4,400	2,500	7.5	18,800	29	7,000	6,700	29.0	194,000
Mercer	1,700	600	10.0	6,000	39	200	100	25.0	2,500
Oliver	200	100	10.0	1,000	46	1,000	900	21.6	19,400
West Central	17,500	8,200	9.1	74,500		16,000	14,800	29.0	429,000
Eddy	2,500	2,200	16.0	35,200	18	9,000	8,500	37.6	319,500
Foster	2,800	2,100	15.5	32,600	22	4,200	3,400	34.0	115,600
Kidder	500	400	6.0	2,400	44	700	600	28.0	16,800
Sheridan	1,800	1,500	7.5	11,300	34	400	400	35.0	14,000
Stutsman	4,400	3,200	16.5	52,800	12	2,700	2,500	28.0	70,000
Wells	5,000	2,800	12.5	35,000	19	4,500	4,100	31.0	127,100
Central	17,000	12,200	13.9	169,300		21,500	19,500	34.0	663,000
Barnes	5,000	3,800	16.5	62,700	9	4,500	3,900	40.0	156,000
Cass	6,300	5,600	26.5	148,400	1	6,200	5,800	46.4	269,100
Griggs	2,000	1,800	24.0	43,200	13	2,700	2,300	34.0	78,200
Steele	300	100	26.0	2,600	43	1,300	1,100	35.5	39,100
Traill	2,400	2,000	28.0	56,000	11	1,300	1,100	36.0	39,600
East Central	16,000	13,300	23.5	312,900		16,000	14,200	41.0	582,000
Adams	17,000	8,600	8.0	68,800	8	6,500	6,000	29.0	174,000
Billings	5,000	2,500	8.5	21,300	27	2,000	1,400	30.0	42,000
Bowman	13,500	9,500	8.5	80,800	5	5,700	5,400	30.0	162,000
Golden Valley	16,000	4,700	8.0	37,600	16	7,800	6,600	35.5	234,300
Hettinger	4,500	1,000	7.0	7,000	36	7,500	7,100	32.6	231,400
Slope	6,000	2,600	12.0	31,200	23	4,500	4,300	33.0	141,900
Stark	9,000	3,100	12.5	38,800	15	3,500	3,200	32.0	102,400
Southwest	71,000	32,000	8.9	285,500		37,500	34,000	32.0	1,088,000
Burleigh	6,000	1,000	5.0	5,000	40	1,500	1,400	26.0	36,400
Emmons	1,000	200	5.0	1,000	46	3,000	2,900	26.0	75,400
Grant	9,500	2,200	9.5	20,900	28	8,500	8,100	34.5	279,600
Morton	2,500	500	12.6	6,300	38	2,000	1,900	34.5	65,600
Sioux	3,000	200	5.0	1,000	46	3,000	2,200	25.0	55,000
South Central	22,000	4,100	8.3	34,200		18,000	16,500	31.0	512,000
Dickey	19,000	5,000	7.0	35,000	19	17,000	16,000	32.1	513,800
LaMoure	6,500	3,300	11.0	36,300	17	6,000	5,700	32.0	182,400
Logan	700	100	10.0	1,000	46	600	600	26.5	15,900
McIntosh	600	---	---	---	--	2,000	1,800	24.0	43,200
Ransom	13,000	7,600	12.5	95,000	4	9,900	9,500	33.5	318,300
Richland	1,700	1,100	19.5	21,500	26	1,500	1,400	30.0	42,000
Sargent	25,500	12,400	10.9	135,300	2	15,000	14,400	31.0	446,400
Southeast	67,000	29,500	11.0	324,100		52,000	49,400	31.6	1,562,000
STATE	250,000	130,000	13.0	1,690,000		200,000	185,000	32.0	5,920,000
North Dakota Totals by Special Cropping Practices									
Summer Fallow	160,400	101,000	13.9	1,406,100		109,800	102,700	34.1	3,504,100
Cont. Cropping	89,600	29,000	9.8	283,900		90,200	82,300	29.4	2,415,900

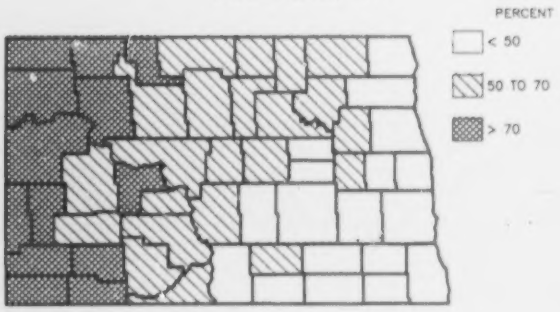
SUMMER FALLOW

North Dakota, 1986, 1987 and 1988

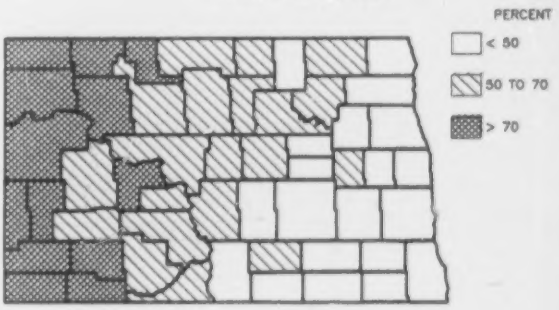
District and County	1986	1987	1988	District and County	1986	1987	1988	District and County	1986	1987	1988
	(Thousand Acres)				(Thousand Acres)				(Thousand Acres)		
Burke	170	170	130	Dunn	110	120	95	Adams	100	100	105
Divide	220	250	220	McKenzie	195	195	165	Billings	55	45	40
Mountrail	235	250	230	McLean	235	255	230	Bowman	110	110	75
Renville	140	140	130	Mercer	80	65	55	Golden Valley	80	95	75
Ward	250	260	230	Oliver	40	45	35	Hettinger	170	160	135
Williams	375	400	350					Slope	110	110	120
								Stark	125	150	140
Northwest	1,390	1,470	1,290	West Central	660	680	580	Southwest	750	770	690
Benson	155	165	190	Eddy	45	45	40	Burleigh	95	105	80
Bottineau	230	255	240	Foster	65	70	60	Emmons	75	105	90
McHenry	150	140	140	Kidder	65	65	40	Grant	100	100	105
Pierce	110	105	110	Sheridan	95	85	85	Morton	120	115	95
Rolette	115	95	100	Stutsman	205	215	180	Sioux	30	25	20
				Wells	135	150	135				
North Central	760	760	780	Central	610	630	540	South Central	420	450	390
Cavalier	195	200	200	Barnes	145	170	150	Dickey	55	80	80
Grand Forks	120	130	120	Cass	135	175	160	LaMoure	105	120	120
Nelson	120	115	100	Griggs	70	70	55	Logan	65	65	60
Pembina	110	130	105	Steele	70	80	70	McIntosh	80	75	75
Ramsey	165	175	150	Traill	80	85	75	Ransom	75	75	70
Towner	135	150	145					Richland	95	130	110
Walsh	125	140	120					Sargent	65	75	65
Northeast	970	1,040	940	East Central	500	580	510	Southeast	540	620	580
								STATE	6,600	7,000	6,300

PERCENT ON SUMMER FALLOW

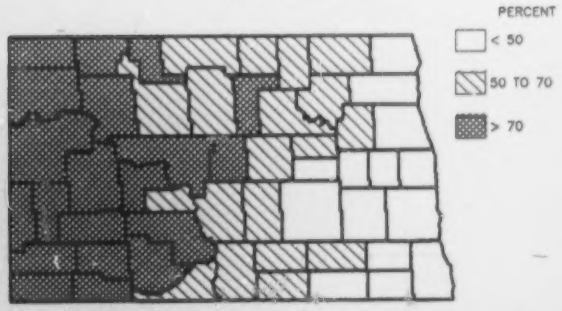
ALL WHEAT
NORTH DAKOTA, 1988



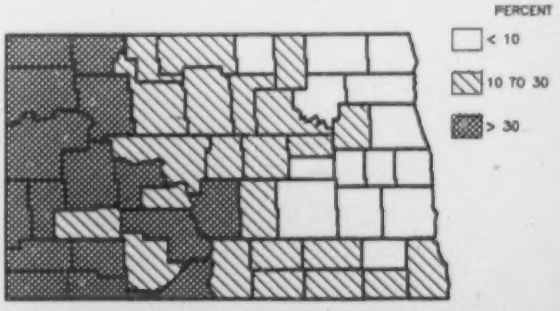
OTHER SPRING WHEAT
NORTH DAKOTA, 1988



DURUM WHEAT
NORTH DAKOTA, 1988

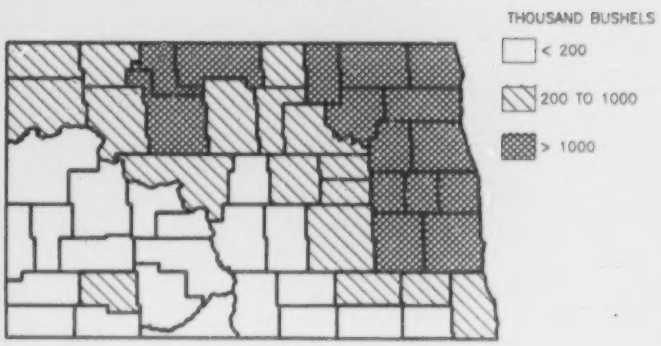


BARLEY
NORTH DAKOTA, 1988

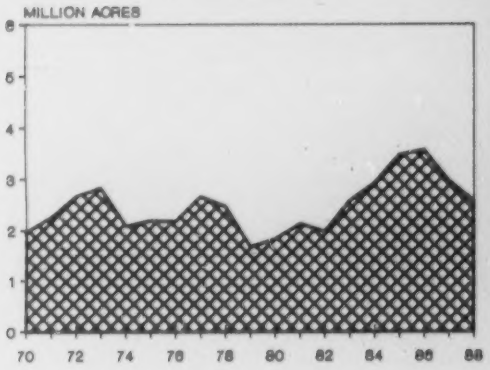


BARLEY

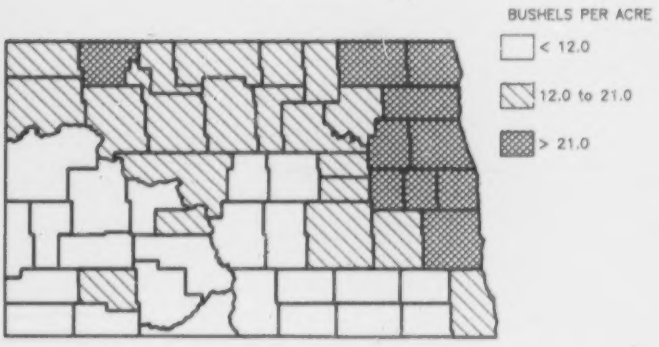
PRODUCTION
NORTH DAKOTA, 1988



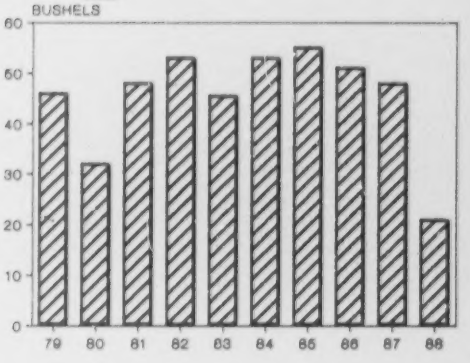
PLANTED ACRES
NORTH DAKOTA, 1970 - 88



YIELD PER HARVESTED ACRE
NORTH DAKOTA, 1988



YIELD PER HARVESTED ACRE
NORTH DAKOTA, 1979 - 88



North Dakota, 1979-88

Year	Acres Planted	Acres Harvested	Yield Per Harvested Acre	Production	Marketing Year Avg. Price	Value of Production	Value per Harvested Acre
	(Acres)	(Acres)	(Bu.)	(Bu.)	($/Bu.)	(Dols.)	(Dols.)
1979	1,700,000	1,650,000	46.0	75,900,000	2.10	159,390,000	96.60
1980	1,850,000	1,500,000	32.0	48,000,000	2.68	128,640,000	85.76
1981	2,150,000	2,100,000	48.0	100,800,000	2.20	221,760,000	105.60
1982	2,000,000	1,950,000	53.0	103,350,000	1.76	181,896,000	93.28
1983	2,600,000	2,520,000	45.5	114,660,000	2.20	252,252,000	100.10
1984	2,950,000	2,900,000	53.0	153,700,000	1.94	298,178,000	102.82
1985	3,500,000	3,350,000	55.0	184,250,000	1.60	294,800,000	88.00
1986	3,600,000	3,450,000	51.0	175,950,000	1.37	241,052,000	69.87
198	3,000,000	2,900,000	48.0	139,200,000	1.70	236,640,000	81.60
1988	2,600,000	2,000,000	21.0	42,000,000	3.10	130,200,000	65.10

BARLEY CONT.

North Dakota, 1988 and 5-Year Average, 1983-87

District and County	1988					5-Year Average, 1983-87			
	Acres Planted	Acres Harvested	Yield Per Harvested Acre	Production		Acres Planted	Acres Harvested	Yield Per Harvested Acre	Production
				Quantity	Rank				
	(Acres)	(Acres)	(Bu.)	(Bu.)	(No.)	(Acres)	(Acres)	(Bu.)	(Bu.)
Burke	38,000	32,800	22.0	722,000	17	48,000	45,100	37.8	1,718,800
Divide	41,000	34,800	16.0	556,000	20	57,000	51,100	31.6	1,626,000
Mountrail	43,000	36,700	14.5	532,000	21	57,600	55,100	38.5	2,164,600
Renville	70,000	66,300	20.0	1,326,000	13	79,600	78,500	46.5	3,685,600
Ward	83,000	72,400	14.9	1,080,000	15	101,400	99,400	47.4	4,782,200
Williams	55,000	44,000	12.0	528,000	22	71,400	66,300	31.1	2,055,800
Northwest	330,000	287,000	16.5	4,744,000		415,000	395,600	40.1	16,033,000
Benson	60,000	34,500	12.0	414,000	25	69,800	68,000	42.9	2,931,800
Bottineau	120,000	111,000	20.1	2,233,000	6	151,800	149,200	46.2	7,020,600
McHenry	43,000	28,800	13.5	388,000	26	55,000	53,900	45.7	2,500,800
Pierce	43,000	28,700	13.0	373,000	27	52,000	51,000	38.9	1,997,400
Rolette	44,000	42,000	21.0	882,000	16	54,400	52,900	46.0	2,459,400
North Central	310,000	245,000	17.5	4,290,000		383,000	375,000	44.5	16,910,000
Cavalier	165,000	157,000	22.5	3,536,000	3	194,600	186,700	57.3	10,676,400
Grand Forks	120,000	117,300	37.0	4,340,000	1	150,000	147,000	61.6	9,067,200
Nelson	61,000	59,500	28.0	1,666,000	8	74,600	73,700	54.3	4,008,400
Pembina	70,000	62,300	24.0	1,494,000	11	87,600	84,400	66.9	5,667,600
Ramsey	86,000	78,500	20.0	1,570,000	10	100,800	97,900	49.0	4,808,600
Towner	84,000	79,600	18.5	1,472,000	12	100,000	96,600	47.0	4,553,400
Walsh	74,000	67,800	24.0	1,627,000	9	100,000	97,200	61.5	5,984,400
Northeast	660,000	622,000	25.2	15,705,000		807,600	783,600	57.0	44,766,000
Dunn	19,000	5,900	6.9	41,000	45	25,600	23,300	39.5	923,000
McKenzie	27,000	11,800	10.0	118,000	37	31,400	26,900	35.3	952,200
McLean	44,000	34,700	12.8	443,000	24	58,200	57,300	44.3	2,593,400
Mercer	9,000	2,400	10.4	25,000	46	12,400	11,200	44.0	509,800
Oliver	11,000	4,100	12.0	49,000	44	13,000	12,700	42.4	545,000
West Central	110,000	58,900	11.5	676,000		140,600	131,400	41.4	5,523,400
Eddy	14,000	12,500	16.5	206,000	32	21,200	20,700	45.4	953,400
Foster	16,000	14,900	18.0	268,000	29	18,600	18,100	48.9	907,800
Kidder	13,000	2,400	9.2	22,000	48	18,600	18,000	40.2	728,200
Sheridan	23,000	10,800	8.5	92,000	39	26,600	26,100	45.2	1,179,800
Stutsman	65,000	40,600	16.1	652,000	19	91,200	87,800	49.7	4,432,800
Wells	54,000	39,800	11.5	458,000	23	62,400	61,200	46.6	2,854,800
Central	185,000	121,000	14.0	1,698,000		238,600	232,000	47.3	11,056,800
Barnes	130,000	105,700	19.5	2,061,000	7	140,600	137,000	55.9	7,704,800
Cass	145,000	127,900	21.8	2,792,000	4	167,200	165,200	65.1	10,796,000
Griggs	53,000	50,600	25.0	1,265,000	14	59,800	58,000	53.2	3,108,000
Steele	77,000	73,200	34.0	2,489,000	5	85,000	83,400	59.9	5,015,600
Traill	95,000	92,600	40.5	3,750,000	2	111,200	109,200	64.1	7,006,800
East Central	500,000	450,000	27.5	12,357,000		563,800	552,800	60.6	33,631,200
Adams	18,000	7,100	9.0	64,000	42	20,600	19,700	43.8	844,000
Billings	5,000	2,100	6.2	13,000	50	5,000	3,900	30.7	123,800
Bowman	20,000	10,500	8.5	89,000	40	27,000	24,000	36.7	886,400
Golden Valley	15,000	6,000	9.5	57,000	43	18,300	16,500	33.6	551,400
Hettinger	29,000	17,400	12.5	218,000	31	41,000	39,800	43.1	1,717,000
Slope	19,000	12,100	11.5	139,000	35	25,600	23,200	40.8	945,000
Stark	29,000	12,800	8.0	102,000	38	30,100	28,200	37.8	1,063,200
Southwest	135,000	68,000	10.0	682,000		167,600	155,200	39.6	6,130,800
Burleigh	15,000	1,400	8.6	12,000	52	23,600	22,700	39.9	916,800
Emmons	23,000	2,300	6.5	15,000	49	24,400	23,000	44.2	1,022,000
Grant	30,000	7,900	10.5	83,000	41	36,200	33,900	41.8	1,423,200
Morton	47,000	12,800	10.7	137,000	36	47,400	43,800	43.3	1,910,000
Sioux	5,000	1,600	7.5	12,000	52	6,600	6,100	38.5	232,000
South Central	120,000	26,000	10.0	259,000		138,200	129,600	42.2	5,504,000
Dickey	40,000	16,400	11.0	180,000	33	47,600	46,600	50.4	2,338,000
LaMoure	50,000	23,600	11.0	259,000	30	51,200	50,100	50.5	2,558,400
Logan	23,000	2,700	8.5	23,000	47	27,400	26,600	45.1	1,205,600
McIntosh	23,000	2,100	6.2	13,000	50	22,600	21,600	40.8	871,200
Ransom	36,000	24,300	11.5	280,000	28	39,400	38,700	53.6	2,088,000
Richland	40,000	34,000	19.5	663,000	18	51,400	50,100	60.1	3,040,800
Sargent	38,000	19,000	9.0	171,000	34	36,000	35,200	53.1	1,894,800
Southeast	250,000	122,100	13.0	1,589,000		275,600	268,800	51.8	13,996,800
STATE	2,600,000	2,000,000	21.0	42,000,000		3,130,000	3,024,000	50.5	153,552,000

BARLEY CONT.

North Dakota, 1986 and 1987

District and County	1986				1987			
	Acres Planted	Acres Harvested	Yield Per Harvested Acre	Production	Acres Planted	Acres Harvested	Yield Per Harvested Acre	Production
	(Acres)	(Acres)	(Bu.)	(Bu.)	(Acres)	(Acres)	(Bu.)	(Bu.)
Burke	60,000	53,500	48.0	2,568,000	47,000	46,000	35.5	1,633,000
Divide	65,000	60,900	43.0	2,580,000	49,000	46,100	40.7	1,875,000
Mountrail	70,000	68,200	50.0	3,410,000	54,000	50,500	30.5	1,540,000
Renville	90,000	89,200	51.0	4,549,000	77,000	75,400	31.5	2,375,000
Ward	125,000	123,500	54.1	6,678,000	110,000	103,500	30.5	3,156,000
Williams	80,000	76,600	43.0	3,294,000	63,000	61,500	33.5	2,060,000
Northwest	490,000	471,000	49.0	23,079,000	400,000	383,000	33.0	12,639,000
Benson	80,000	73,000	41.5	3,030,000	65,000	64,000	41.0	2,624,000
Bottineau	175,000	169,000	51.0	8,619,000	138,000	134,700	36.7	4,947,000
McHenry	80,000	78,500	50.5	3,965,000	54,000	51,500	35.0	1,803,000
Pierce	65,000	63,500	38.2	2,427,000	51,000	48,500	33.5	1,625,000
Rolette	60,000	57,000	51.0	2,907,000	52,000	50,300	41.5	2,088,000
North Central	460,000	441,000	47.5	20,948,000	360,000	349,000	37.5	13,087,000
Cavalier	200,000	194,500	56.0	10,892,000	175,000	173,000	60.8	10,511,000
Grand Forks	155,000	150,000	59.5	8,925,000	135,000	133,100	61.0	8,119,000
Nelson	80,000	79,000	53.0	4,187,000	73,000	70,700	54.5	3,853,000
Pembina	90,000	84,000	61.5	5,168,000	75,000	74,000	68.0	5,032,000
Ramsey	110,000	101,000	46.0	4,646,000	96,000	94,600	48.5	4,588,000
Towner	105,000	99,500	46.0	4,577,000	86,000	84,600	48.5	4,103,000
Walsh	100,000	99,000	60.5	5,990,000	90,000	89,000	62.5	5,562,000
Northeast	840,000	807,000	55.0	44,385,000	730,000	719,000	58.1	41,768,000
Dunn	30,000	27,000	42.0	1,134,000	29,000	27,200	35.5	966,000
McKenzie	35,000	30,500	43.5	1,327,000	27,000	24,400	36.0	879,000
McLean	94,000	91,000	50.5	4,595,000	60,000	59,000	36.9	2,175,000
Mercer	15,000	13,000	48.5	631,000	11,000	10,100	37.0	374,000
Oliver	16,000	15,500	46.5	721,000	13,000	12,300	37.5	461,000
West Central	190,000	177,000	47.5	8,408,000	140,000	133,000	36.5	4,855,000
Eddy	30,000	29,500	50.0	1,475,000	20,000	19,000	43.5	826,000
Foster	28,000	27,500	52.5	1,444,000	18,000	17,200	46.5	800,000
Kidder	27,000	26,500	39.5	1,047,000	19,000	18,200	42.5	773,000
Sheridan	35,000	34,500	44.0	1,518,000	28,000	27,000	41.0	1,107,000
Stutsman	125,000	118,000	54.1	6,383,000	83,000	81,000	49.3	3,994,000
Wells	75,000	74,000	47.0	3,478,000	62,000	57,600	45.5	2,620,000
Central	320,000	310,000	49.5	15,345,000	230,000	220,000	46.0	10,120,000
Barnes	145,000	142,500	59.0	8,408,000	135,000	132,700	55.5	7,365,000
Cass	170,000	168,500	59.6	10,045,000	170,000	167,500	62.3	10,430,000
Griggs	65,000	64,000	50.0	3,200,000	57,000	54,100	47.0	2,543,000
Steele	80,000	79,000	63.0	4,977,000	80,000	75,900	54.5	4,137,000
Traill	110,000	109,000	62.5	6,813,000	108,000	104,800	60.0	6,288,000
East Central	570,000	563,000	59.4	33,443,000	550,000	535,000	57.5	30,763,000
Adams	25,000	24,000	39.0	936,000	19,000	17,800	45.0	801,000
Billings	5,000	4,000	35.0	140,000	5,000	4,700	38.5	181,000
Bowman	26,000	22,500	34.5	776,000	26,000	23,500	41.0	964,000
Golden Valley	20,000	18,000	37.0	666,000	15,500	14,800	40.0	592,000
Hettinger	56,000	55,200	44.9	2,479,000	31,000	27,200	44.5	1,211,000
Slope	28,000	26,000	41.0	1,066,000	25,000	22,500	42.0	945,000
Stark	40,000	37,300	38.0	1,417,000	28,500	26,500	40.0	1,060,000
Southwest	200,000	187,000	40.0	7,480,000	150,000	137,000	42.0	5,754,000
Burleigh	35,000	32,800	43.0	1,410,000	23,000	21,400	39.5	845,000
Emmons	35,000	31,200	42.0	1,310,000	29,000	27,400	47.0	1,288,000
Grant	50,000	46,800	42.0	1,965,000	40,000	37,800	42.0	1,588,000
Morton	60,000	50,000	45.0	2,248,000	50,000	48,000	41.9	2,009,000
Sioux	10,000	9,200	41.0	377,000	8,000	6,400	30.0	192,000
South Central	190,000	170,000	43.0	7,310,000	150,000	141,000	42.0	5,922,000
Dickey	60,000	58,500	45.0	2,635,000	52,000	50,600	47.5	2,404,000
LaMoure	73,000	70,500	51.0	3,592,000	53,000	52,000	50.7	2,636,000
Logan	34,000	32,000	42.5	1,360,000	26,000	25,400	47.0	1,194,000
McIntosh	29,000	26,500	38.5	1,021,000	27,000	24,900	42.5	1,058,000
Ransom	45,000	43,500	51.0	2,220,000	40,000	39,400	51.5	2,029,000
Richland	55,000	52,000	53.0	2,756,000	52,000	51,300	58.5	3,001,000
Sargent	44,000	41,000	48.0	1,968,000	40,000	39,400	50.0	1,970,000
Southeast	340,000	324,000	48.0	15,552,000	290,000	283,000	50.5	14,292,000
STATE	3,600,000	3,450,000	51.0	175,950,000	3,000,000	2,900,000	48.0	139,200,000

BARLEY CONT.

North Dakota, 1987 1/

District and County	Summer Fallow				Continuous Cropping			
	Acres Planted	Acres Harvested	Yield Per Harvested Acre	Production	Acres Planted	Acres Harvested	Yield Per Harvested Acre	Production
	(Acres)	(Acres)	(Bu.)	(Bu.)	(Acres)	(Acres)	(Bu.)	(Bu.)
Burke	15,800	15,300	36.8	563,300	31,200	30,700	34.8	1,069,700
Divide	36,600	35,300	42.5	1,498,700	12,400	10,800	34.8	376,300
Mountrail	22,000	20,800	32.9	684,500	32,000	29,700	28.8	855,500
Renville	14,000	13,700	35.6	487,400	63,000	61,700	30.6	1,887,600
Ward	16,100	15,500	37.4	579,500	93,700	87,800	29.2	2,565,500
Williams	51,200	50,000	34.9	1,746,600	11,500	11,200	26.4	295,400
Northwest	155,700	150,600	36.9	5,560,000	243,800	231,900	30.4	7,050,000
Benson	7,100	7,000	39.7	277,700	57,700	56,800	41.1	2,332,300
Bottineau	14,400	14,200	37.3	529,400	123,600	120,500	36.7	4,417,600
McHenry	6,300	6,300	41.1	258,900	47,700	45,200	34.2	1,544,100
Pierce	6,800	6,700	31.9	213,400	44,200	41,800	33.8	1,411,600
Rolette	5,400	5,200	43.1	224,200	46,500	45,000	41.3	1,857,300
North Central	40,000	39,400	38.2	1,503,600	319,700	309,300	37.4	11,562,900
Cavalier	16,100	15,900	61.9	984,500	158,900	157,100	60.6	9,526,500
Grand Forks	4,700	4,700	54.1	254,100	130,200	128,300	61.3	7,858,400
Nelson	5,300	5,100	45.6	232,400	67,700	65,600	55.2	3,620,600
Pembina	3,200	3,200	72.4	231,700	71,800	70,800	67.8	4,800,300
Ramsey	9,000	7,800	48.9	381,100	88,000	86,800	48.5	4,206,900
Towner	4,500	4,400	47.2	207,600	81,500	80,200	48.6	3,895,400
Walsh	3,700	3,700	66.5	246,200	86,300	85,300	62.3	5,315,800
Northeast	45,500	44,800	56.6	2,537,600	684,400	674,100	58.2	39,223,900
Dunn	6,400	6,400	41.9	267,900	22,600	20,800	33.6	698,100
McKenzie	17,300	15,600	37.3	582,100	9,000	8,100	29.5	239,000
McLean	8,800	8,500	42.8	363,800	50,900	50,200	35.5	1,784,200
Mercer	2,500	2,300	52.5	120,800	8,400	7,700	31.8	245,200
Oliver	3,900	3,900	43.8	170,800	9,000	8,300	34.0	282,200
West Central	38,900	36,700	41.0	1,505,400	99,900	95,100	34.2	3,248,700
Eddy	1,900	1,800	47.7	85,800	17,900	17,000	42.7	725,200
Foster	1,600	1,600	44.3	70,900	16,400	15,600	46.7	729,100
Kidder	2,800	2,600	46.1	119,900	16,000	15,400	41.6	640,100
Sheridan	3,800	3,700	49.4	182,700	24,200	23,300	39.7	924,300
Stutsman	6,100	5,900	45.5	268,600	76,800	75,000	49.6	3,717,900
Wells	5,000	4,600	48.3	222,400	57,000	53,000	45.2	2,397,600
Central	21,200	20,200	47.0	950,300	208,300	199,300	45.8	9,134,200
Barnes	6,300	6,200	65.0	402,900	128,500	126,300	55.0	6,950,100
Cass	3,900	3,900	56.9	221,800	165,900	163,400	62.4	10,194,200
Griggs	2,200	2,200	51.5	113,300	54,300	51,400	46.6	2,397,200
Steele	2,500	2,500	55.5	138,700	77,500	73,400	54.5	3,998,300
Traill	2,200	2,200	55.9	122,900	105,800	102,600	60.1	6,165,100
East Central	17,100	17,000	58.8	999,600	532,000	517,100	57.4	29,704,900
Adams	6,800	6,300	54.1	340,700	12,200	11,500	40.0	460,300
Billings	3,800	3,500	40.9	143,300	1,200	1,200	31.4	37,700
Bowman	15,800	14,000	42.3	591,700	10,200	9,500	39.2	372,300
Golden Valley	7,100	6,900	39.2	270,800	8,100	7,600	39.4	299,600
Hettinger	5,300	4,600	42.6	196,100	25,700	22,600	44.9	1,014,900
Slope	13,000	12,200	45.7	557,700	12,000	10,300	37.6	387,300
Stark	5,400	5,000	44.8	223,800	23,100	21,500	38.9	836,200
Southwest	57,200	52,500	44.3	2,324,100	92,500	84,200	40.5	3,408,300
Burleigh	3,200	3,100	43.5	134,800	19,700	18,200	38.6	702,800
Emmons	4,200	4,100	59.8	245,000	24,300	22,800	44.2	1,008,000
Grant	8,600	8,500	44.7	379,600	31,200	29,100	41.1	1,195,400
Morton	8,500	8,400	57.8	485,500	41,200	39,300	38.2	1,503,100
Sioux	2,800	2,400	31.0	74,500	5,100	3,900	28.8	112,500
South Central	27,300	26,500	49.8	1,319,400	121,500	113,300	39.9	4,521,800
Dickey	5,500	5,500	55.6	305,800	46,200	44,800	46.3	2,074,200
LaMoure	7,000	6,900	57.1	393,700	45,900	45,000	49.7	2,234,800
Logan	4,700	4,600	52.5	241,500	21,000	20,500	45.5	932,900
McIntosh	3,800	3,600	46.3	166,600	23,200	21,300	41.8	891,400
Ransom	2,200	2,200	52.3	115,100	37,700	37,100	51.4	1,906,400
Richland	2,200	2,100	70.5	148,000	49,800	49,200	58.0	2,853,000
Sargent	2,300	2,300	55.3	127,200	37,600	37,000	49.6	1,834,800
Southeast	27,700	27,200	55.1	1,497,900	261,400	254,900	49.9	12,727,500
STATE	430,600	414,900	43.9	18,197,900	2,563,500	2,479,200	48.6	120,582,200

1/ See page 81 for irrigated acres.

BARLEY CONT.

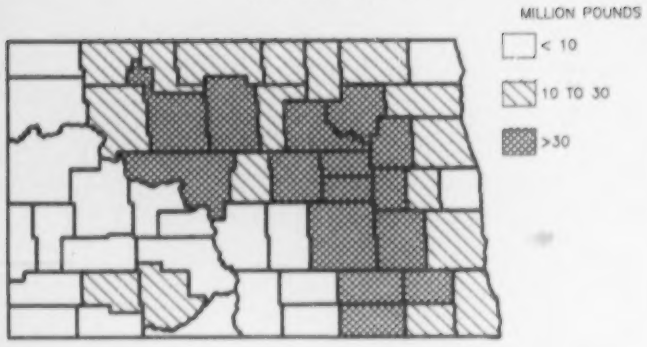
North Dakota, 1988 1/

District and County	Summer Fallow				Continuous Cropping			
	Acres Planted	Acres Harvested	Yield Per Harvested Acre	Production	Acres Planted	Acres Harvested	Yield Per Harvested Acre	Production
	(Acres)	(Acres)	(Bu.)	(Bu.)	(Acres)	(Acres)	(Bu.)	(Bu.)
Burke	13,300	12,100	26.0	314,600	24,700	20,700	19.7	407,400
Divide	23,700	21,700	16.8	363,500	17,300	13,100	14.7	192,500
Mountrail	20,600	18,000	16.5	297,300	22,400	18,700	12.6	234,700
Renville	8,300	8,200	27.3	224,100	61,700	58,100	19.0	1,101,900
Ward	16,600	14,700	17.9	262,700	66,400	57,700	14.2	817,300
Williams	44,000	39,300	12.3	484,200	10,700	4,500	8.5	38,200
Northwest	126,500	114,000	17.1	1,946,400	203,200	172,800	16.2	2,792,000
Benson	10,800	10,000	13.4	133,900	49,000	24,300	11.1	269,100
Bottineau	13,900	12,900	25.7	330,900	106,000	98,000	19.4	1,897,100
McHenry	5,600	2,900	15.0	43,400	37,200	25,700	13.1	336,600
Pierce	7,700	6,400	15.9	102,000	35,200	22,200	12.0	266,000
Rolette	3,900	3,700	22.4	82,700	40,000	38,200	20.8	793,800
North Central	41,900	35,900	19.3	692,900	267,400	208,400	17.1	3,562,600
Cavalier	15,300	14,700	28.8	423,600	149,700	142,300	21.9	3,112,400
Grand Forks	7,100	6,900	45.8	316,000	112,900	110,400	36.4	4,024,000
Nelson	7,800	7,600	30.0	228,100	53,200	51,900	27.7	1,437,900
Pembina	3,100	2,700	29.6	79,900	66,900	59,600	23.7	1,414,100
Ramsey	6,600	6,300	28.2	177,400	79,400	72,200	19.3	1,392,600
Towner	9,300	8,900	18.8	166,900	74,700	70,700	18.5	1,305,100
Walsh	3,700	3,600	25.8	92,900	70,300	64,200	23.9	1,534,100
Northeast	52,900	50,700	29.3	1,484,800	607,100	571,300	24.9	14,220,200
Dunn	6,700	3,100	6.5	20,300	12,200	2,700	6.6	17,700
McKenzie	19,000	10,800	8.9	95,900	7,300	500	10.6	5,300
McLean	7,700	6,900	17.9	123,500	36,100	27,600	11.3	312,500
Mercer	4,000	1,800	9.6	17,200	4,900	500	9.2	4,600
Oliver	2,500	1,300	11.8	15,400	8,500	2,800	12.0	33,600
West Central	39,900	23,900	11.4	272,300	69,000	34,100	11.0	373,700
Eddy	2,200	2,000	14.1	28,100	11,500	10,200	15.8	161,400
Foster	700	500	17.6	8,800	15,100	14,200	17.4	247,200
Kidder	2,700	1,300	11.4	14,800	10,300	1,100	6.5	7,200
Sheridan	3,200	2,500	10.9	27,200	19,800	8,300	7.8	64,800
Stutsman	3,500	2,000	20.6	41,100	61,300	38,500	15.8	608,300
Wells	7,400	6,400	11.3	72,600	46,600	33,400	11.5	385,400
Central	19,700	14,700	13.1	192,600	164,600	105,700	13.9	1,474,300
Barnes	6,000	4,900	20.0	98,200	124,000	100,800	19.5	1,962,800
Cass	8,600	6,800	24.4	165,600	136,100	120,800	21.6	2,608,400
Griggs	3,600	3,500	22.6	79,100	48,900	46,600	24.8	1,157,300
Steele	6,200	5,800	34.4	199,800	70,800	67,400	34.0	2,289,200
Traill	2,500	2,500	47.8	119,400	92,500	90,100	40.3	3,630,600
East Central	26,900	23,500	28.2	662,100	472,300	425,700	27.4	11,648,300
Adams	8,300	5,300	10.0	53,200	9,700	1,800	6.0	10,800
Billings	2,400	1,200	7.1	8,500	2,600	900	5.0	4,500
Bowman	12,100	5,800	8.6	50,100	7,800	4,600	7.7	35,400
Golden Valley	9,000	5,200	9.6	50,100	6,000	800	8.6	6,900
Hettinger	10,200	6,100	17.2	104,900	18,600	11,100	9.6	106,100
Slope	8,500	6,200	17.2	106,800	10,500	5,900	5.5	32,200
Stark	6,800	3,700	13.0	48,200	22,200	9,100	5.9	53,800
Southwest	57,300	33,500	12.6	421,800	77,400	34,200	7.3	249,700
Burleigh	5,000	500	9.0	4,500	10,000	900	8.3	7,500
Emmons	4,800	300	6.7	2,000	17,800	1,800	4.4	8,000
Grant	8,300	4,300	11.5	49,400	21,600	3,500	8.7	30,600
Morton	12,000	4,000	13.9	55,500	34,800	8,700	9.1	79,000
Sioux	1,800	1,200	8.2	9,800	3,200	400	5.5	2,200
South Central	31,900	10,300	11.8	121,200	87,400	15,300	8.3	127,300
Dickey	5,200	4,100	15.5	63,700	34,400	11,900	8.0	95,000
LaMoure	6,300	3,500	16.4	57,300	43,700	20,100	10.0	201,700
Logan	4,200	900	3.2	2,900	18,500	1,500	2.4	3,600
McIntosh	3,300	800	6.9	5,500	19,700	1,300	5.8	7,500
Ransom	2,200	1,700	19.8	33,600	33,800	22,600	10.9	246,400
Richland	3,200	3,100	27.7	85,800	36,800	30,900	18.7	577,200
Sargent	4,300	2,600	13.7	35,500	33,700	16,400	8.3	135,500
Southeast	28,700	16,700	17.0	284,300	220,600	104,700	12.1	1,266,900
STATE	425,700	323,200	18.8	6,078,400	2,169,000	1,672,200	21.4	35,715,000

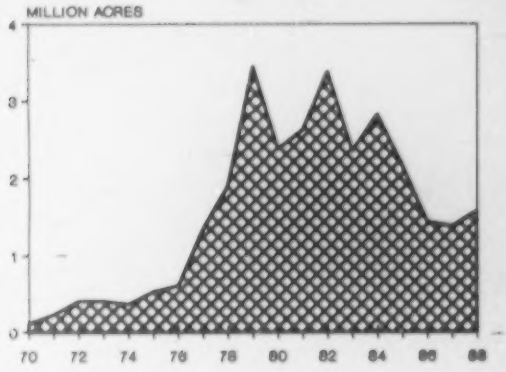
1/ See page 80 for irrigated acres.

SUNFLOWER

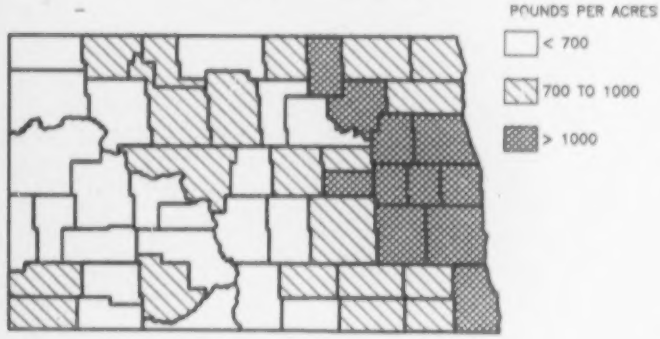
PRODUCTION
NORTH DAKOTA, 1988



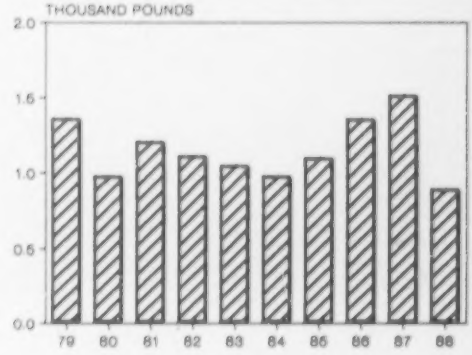
PLANTED ACRES
NORTH DAKOTA, 1970 - 88



YIELD PER HARVESTED ACRE
NORTH DAKOTA, 1988



YIELD PER HARVESTED ACRE
NORTH DAKOTA, 1979 - 88



North Dakota, 1979-88

Year	Acres Planted	Acres Harvested	Yield Per Harvested Acre	Production	Marketing Year Avg. Price	Value of Production	Value per Harvested Acre
	(Acres)	(Acres)	(Lbs.)	(Lbs.)	($/Cwt.)	(Dols.)	(Dols.)
1979	3,460,000	3,378	1357	4,584,600,000	8.89	407,650,000	120.68
1980	2,400,000	2,235,000	976	2,181,050,000	11.00	239,683,000	107.24
1981	2,650,000	2,628,000	1202	3,158,160,000	10.70	339,117,000	129.04
1982	3,400,000	3,348,000	1106	3,703,600,000	8.84	327,246,000	97.74
1983	2,375,000	2,344,000	1044	2,446,400,000	13.00	317,715,000	135.54
1984	2,850,000	2,817,000	976	2,749,850,000	11.30	311,370,000	110.53
1985	2,190,000	2,030,000	1094	2,221,800,000	8.01	177,957,000	87.66
1986	1,460,000	1,407,000	1353	1,903,690,000	7.10	135,179,000	96.08
1987	1,400,000	1,375,000	1510	2,076,350,000	8.46	175,625,000	127.73
1988	1,600,000	1,490,000	891	1,328,000,000	12.10	160,688,000	107.84

SUNFLOWER CONT.

North Dakota, 1988 and 5-Year Average, 1983-87

District and County	1988					5-Year Average, 1983-87			
	Acres Planted	Acres Harvested	Yield Per Harvested Acre	Production		Acres Planted	Acres Harvested	Yield Per Harvested Acre	Production
				Quantity	Rank				
	(Acres)	(Acres)	(Lbs.)	(000 Lbs.)	(No.)	(Acres)	(Acres)	(Lbs.)	(000 Lbs.)
Burke	18,000	17,500	840	14,700	28	20,400	18,000	930	15,371
Divide	6,000	5,000	610	3,050	42	15,200	12,400	750	7,480
Mountrail	28,500	26,400	580	15,280	27	31,300	29,000	1030	27,211
Renville	24,000	23,500	900	21,040	25	19,600	18,600	1100	18,715
Ward	57,500	55,900	860	48,100	9	78,500	71,300	1180	81,766
Williams	5,500	5,000	690	3,450	38	11,600	10,600	800	7,398
Northwest	139,500	133,300	790	105,620		176,700	160,000	1060	157,941
Benson	64,500	54,100	650	35,240	13	78,900	77,500	1130	83,496
Bottineau	43,600	41,500	680	28,190	17	48,300	44,400	1150	45,126
McHenry	54,800	51,700	740	38,010	11	71,100	68,700	1220	79,246
Pierce	43,500	36,300	640	23,240	23	55,000	54,100	1110	57,938
Rolette	13,600	12,900	820	10,620	32	29,500	28,400	1080	28,597
North Central	220,000	196,500	690	135,300		282,800	273,100	1140	294,404
Cavalier	27,500	26,800	970	25,950	20	31,800	30,100	1230	35,546
Grand Forks	21,500	20,500	1270	25,980	19	57,600	56,100	1230	65,806
Nelson	60,000	57,500	1320	75,680	6	66,300	64,200	1220	76,633
Pembina	4,500	4,400	920	4,050	35	11,500	11,000	1230	13,049
Ramsey	74,000	72,000	1050	75,340	5	71,100	67,600	1170	76,403
Towner	29,000	28,400	1010	28,550	16	35,300	33,300	1130	36,606
Walsh	23,500	22,900	850	19,500	26	37,200	36,600	1240	43,632
Northeast	240,000	232,500	1100	255,550		310,800	298,900	1210	347,675
Dunn	6,600	2,000	540	1,080	49	7,100	6,900	1110	7,462
McKenzie	2,000	1,500	500	750	50	2,200	2,000	960	1,527
McLean	70,400	64,800	780	50,240	8	101,800	99,600	1230	117,509
Mercer	5,500	4,900	550	2,710	44	8,400	7,900	1100	8,463
Oliver	7,000	6,000	570	3,420	39	7,400	7,400	1180	8,241
West Central	91,500	79,200	730	58,200		126,900	123,700	1200	143,202
Eddy	39,500	37,800	950	35,820	12	45,100	44,500	1170	49,485
Foster	76,500	72,500	1070	77,270	4	76,300	74,700	1220	90,356
Kidder	3,000	2,200	620	1,360	48	13,100	12,900	1040	12,354
Sheridan	40,000	36,400	600	21,840	24	52,200	51,100	1150	56,746
Stutsman	132,500	124,100	840	104,260	2	157,000	155,100	1170	175,909
Wells	100,500	95,500	790	75,270	7	123,700	120,900	1170	136,380
Central	392,000	368,500	860	315,820		467,400	459,300	1170	521,230
Barnes	110,000	104,700	1110	116,530	1	109,100	107,400	1310	135,131
Cass	28,200	26,300	1040	27,360	18	53,900	53,400	1440	75,497
Griggs	34,700	33,600	1330	44,790	10	40,300	39,800	1280	48,830
Steele	19,000	18,400	1400	25,800	22	30,500	30,200	1350	39,467
Traill	2,100	2,000	1670	3,330	40	8,600	8,200	1370	11,615
East Central	194,000	185,000	1180	217,810		242,400	238,900	1340	310,540
Adams	6,000	5,800	480	2,780	43	17,300	16,900	1060	17,108
Billings	500	300	600	180	53	1,300	1,300	970	1,149
Bowman	3,000	2,700	740	2,002	47	6,500	6,400	960	5,710
Golden Valley	1,000	600	600	360	51	1,500	1,500	920	1,294
Hettinger	20,000	18,700	580	10,840	31	48,600	47,900	1160	55,734
Slope	3,000	2,800	760	2,128	46	7,400	7,200	1070	7,572
Stark	7,500	6,800	550	3,740	36	14,400	14,200	1020	13,343
Southwest	41,000	37,700	580	22,030		97,000	95,400	1090	101,909
Burleigh	12,000	7,800	460	3,590	37	26,300	25,000	1040	24,042
Emmons	9,500	7,300	360	2,630	45	9,300	9,000	1130	9,491
Grant	18,500	17,200	790	13,650	29	23,100	22,600	1140	24,833
Morton	15,000	14,500	470	6,820	33	18,900	18,300	1110	19,454
Sioux	1,000	700	370	260	52	2,600	2,500	1040	2,398
South Central	56,000	47,500	570	26,950		80,200	77,400	1100	80,219
Dickey	39,500	38,300	870	33,420	14	50,900	50,600	1220	56,188
LaMoure	85,000	81,500	990	80,920	3	83,700	82,800	1240	98,517
Logan	8,000	6,900	720	5,000	34	12,100	12,100	1010	11,220
McIntosh	12,000	6,700	480	3,230	41	18,400	18,300	1110	18,380
Ransom	39,000	35,500	870	30,940	15	39,700	39,000	1360	51,826
Richland	10,000	9,500	1200	11,400	30	24,400	24,000	1360	31,471
Sargent	32,500	31,400	820	25,810	21	41,600	41,200	1390	54,896
Southeast	226,000	209,800	910	190,720		270,800	267,800	1270	322,498
STATE	1,600,000	1,490,000	891	1,328,000		2,055,000	1,994,600	1200	2,279,618

SUNFLOWER CONT.

North Dakota, 1986 and 1987

District and County	1986				1987			
	Acres Planted	Acres Harvested	Yield Per Harvested Acre	Production	Acres Planted	Acres Harvested	Yield Per Harvested Acre	Production
	(Acres)	(Acres)	(Lbs.)	(000 Lbs.)	(Acres)	(Acres)	(Lbs.)	(000 Lbs.)
Burke	13,000	11,000	1160	12,780	14,000	14,000	1340	18,760
Divide	8,600	5,100	920	4,686	4,500	4,500	1350	6,070
Mountrail	20,200	19,200	1170	22,423	12,000	11,500	1260	14,530
Renville	9,200	9,200	1370	12,614	10,500	10,300	1550	16,010
Ward	48,500	44,500	1290	57,192	64,000	62,900	1530	96,170
Williams	5,000	4,500	1010	4,545	6,000	5,700	1260	7,180
Northwest	104,500	93,500	1220	114,240	111,000	108,900	1460	158,720
Benson	51,500	49,000	1200	58,690	54,000	52,800	1520	80,350
Bottineau	22,500	22,000	1250	27,550	25,700	25,200	1630	41,000
McHenry	57,500	52,000	1380	71,860	45,300	44,700	1500	66,870
Pierce	38,000	35,500	1160	41,145	44,300	44,100	1490	65,830
Rolette	17,500	17,000	1210	20,515	13,700	13,700	1470	20,080
North Central	187,000	175,500	1250	219,760	183,000	180,500	1520	274,130
Cavalier	14,000	13,500	1320	17,860	17,500	16,900	1550	26,200
Grand Forks	45,000	44,000	1470	64,750	32,500	32,500	1580	51,390
Nelson	48,000	45,300	1390	63,175	54,000	53,100	1480	78,630
Pembina	7,000	7,000	1320	9,270	5,400	5,400	1600	8,650
Ramsey	42,500	35,400	1210	42,755	50,500	49,700	1530	75,950
Towner	20,500	17,900	1160	20,810	25,600	25,000	1490	37,330
Walsh	29,000	28,400	1400	39,780	24,500	24,400	1580	38,650
Northeast	206,000	191,500	1350	258,400	210,000	207,000	1530	316,800
Dunn	6,000	5,400	1100	5,954	5,000	4,900	1370	6,730
McKenzie	1,000	700	1300	910	600	600	1530	920
McLean	71,500	70,000	1420	99,061	80,500	80,300	1550	124,590
Mercer	7,500	7,000	1150	8,045	5,900	5,900	1460	8,590
Oliver	7,000	6,900	1500	10,350	4,500	4,500	1460	6,570
West Central	93,000	90,000	1380	124,320	96,500	96,200	1530	147,400
Eddy	35,500	35,300	1300	45,788	22,700	22,600	1460	32,920
Foster	70,500	69,500	1400	97,400	55,500	51,800	1320	68,160
Kidder	6,000	6,000	1000	6,000	4,300	4,300	1490	6,400
Sheridan	37,500	36,700	1250	46,022	36,000	35,400	1360	48,030
Stutsman	116,500	114,500	1360	155,680	136,500	135,200	1490	201,120
Wells	99,000	98,000	1280	124,950	86,000	80,700	1400	112,670
Central	365,000	360,000	1320	475,840	341,000	330,000	1420	469,300
Barnes	95,000	94,000	1550	145,960	84,000	82,400	1680	138,540
Cass	54,000	54,000	1570	84,980	24,500	24,400	1670	40,800
Griggs	33,000	33,000	1490	49,230	27,000	26,500	1530	40,510
Steele	24,000	24,000	1660	39,880	25,000	23,900	1490	35,670
Traill	11,000	11,000	1680	18,430	4,500	4,300	1190	5,100
East Central	217,000	216,000	1570	338,480	165,000	161,500	1610	260,620
Adams	8,000	8,000	1030	8,240	7,700	7,700	1300	10,010
Billings	500	500	930	465	300	300	1300	390
Bowman	4,000	3,500	1000	3,500	4,300	4,300	1460	6,260
Golden Valley	508	500	900	450	1,000	1,000	1500	1,500
Hettinger	21,500	20,500	1080	22,180	24,300	23,800	1170	27,880
Slope	5,000	5,000	960	4,790	5,900	5,900	1450	8,540
Stark	9,000	8,500	770	6,545	4,000	4,000	1480	5,920
Southwest	48,500	46,500	990	46,170	47,500	47,000	1290	60,500
Burleigh	15,500	15,500	1100	17,050	14,400	14,300	1430	20,490
Emmons	5,000	4,500	1330	5,985	6,000	5,700	1520	8,670
Grant	13,500	12,500	1170	14,625	16,800	16,400	1420	23,220
Morton	12,500	12,000	1280	15,310	17,600	17,600	1460	25,710
Sioux	1,500	1,500	1060	1,590	200	200	1350	270
South Central	48,000	46,000	1190	54,560	55,000	54,200	1450	78,360
Dickey	25,500	25,500	1510	38,420	33,000	33,000	1620	53,350
LaMoure	60,000	59,600	1380	82,304	67,000	66,800	1640	109,700
Logan	6,500	6,500	1130	7,330	7,400	7,400	1390	10,280
McIntosh	9,500	9,500	1520	14,480	11,800	11,300	1400	15,810
Ransom	34,500	33,100	1450	48,027	38,300	34,700	1710	59,450
Richland	20,500	19,900	1380	27,554	7,500	7,500	1590	11,960
Sargent	34,500	33,900	1590	53,805	29,000	29,000	1720	49,970
Southeast	191,000	188,000	1450	271,920	191,000	189,700	1640	310,520
STATE	1,460,000	1,407,000	1353	1,903,690	1,400,000	1,375,000	1510	2,076,350

SUNFLOWER CONT.

North Dakota, 1987

District and County	Oil				Non-Oil			
	Acres Planted	Acres Harvested	Yield Per Harvested Acre	Production	Acres Planted	Acres Harvested	Yield Per Harvested Acre	Production
	(Acres)	(Acres)	(Lbs.)	(000 Lbs.)	(Acres)	(Acres)	(Lbs.)	(000 Lbs.)
Burke	14,000	14,000	1340	18,760	---	---	---	---
Divide	4,500	4,500	1350	6,070	---	---	---	---
Mountrail	11,000	10,500	1270	13,340	1,000	1,000	1190	1,190
Renville	9,500	9,300	1570	14,600	1,000	1,000	1410	1,410
Ward	60,000	59,000	1550	91,450	4,000	3,900	1210	4,720
Williams	6,000	5,700	1260	7,180	---	---	---	---
Northwest	105,000	103,000	1470	151,400	6,000	5,900	1240	7,320
Benson	41,000	41,000	1550	63,540	13,000	11,800	1420	16,810
Bottineau	25,000	24,500	1630	39,940	700	700	1510	1,060
McHenry	40,000	39,500	1490	58,870	5,300	5,200	1540	8,000
Pierce	36,000	36,000	1500	54,010	8,300	8,100	1460	11,820
Rolette	13,000	13,000	1480	19,240	700	700	1200	840
North Central	155,000	154,000	1530	235,600	28,000	26,500	1450	38,530
Cavalier	9,500	9,000	1550	13,950	8,000	7,900	1550	12,250
Grand Forks	30,000	30,000	1580	47,410	2,500	2,500	1590	3,980
Nelson	39,000	38,500	1490	57,380	15,000	14,600	1460	21,250
Pembina	5,000	5,000	1610	8,050	400	400	1500	600
Ramsey	35,000	34,500	1540	53,150	15,500	15,200	1500	22,800
Towner	21,000	20,500	1500	30,760	4,600	4,500	1460	6,570
Walsh	20,500	20,500	1590	32,600	4,000	3,900	1550	6,050
Northeast	160,000	158,000	1540	243,300	50,000	49,000	1500	73,500
Dunn	3,500	3,500	1310	4,590	1,500	1,400	1530	2,140
McKenzie	600	600	1530	920	---	---	---	---
McLean	76,000	76,000	1560	118,530	4,500	4,300	1410	6,060
Mercer	5,400	5,400	1480	7,990	500	500	1200	600
Oliver	4,500	4,500	1460	6,570	---	---	---	---
West Central	90,000	90,000	1540	138,600	6,500	6,200	1420	8,800
Eddy	15,000	15,000	1490	22,350	7,700	7,600	1390	10,570
Foster	40,500	37,000	1310	48,470	15,000	14,800	1330	19,690
Kidder	4,000	4,000	1510	6,040	300	300	1200	360
Sheridan	33,500	33,000	1350	44,550	2,500	2,400	1450	3,480
Stutsman	115,000	114,000	1470	167,620	21,500	21,200	1580	33,500
Wells	72,000	67,000	1410	94,470	14,000	13,700	1330	18,200
Central	280,000	270,000	1420	383,500	61,000	60,000	1430	85,800
Barnes	79,000	77,500	1690	130,950	5,000	4,900	1550	7,599
Cass	20,000	20,000	1710	34,200	4,500	4,400	1500	6,600
Griggs	25,000	24,500	1560	38,210	2,000	2,000	1150	2,300
Steele	20,000	19,000	1560	29,640	5,000	4,900	1230	6,030
Traill	1,000	1,000	1300	1,300	3,500	3,300	1150	3,800
East Central	145,000	142,000	1650	234,300	20,000	19,500	1350	26,320
Adams	7,700	7,700	1300	10,010	---	---	---	---
Billings	300	300	1300	390	---	---	---	---
Bowman	4,000	4,000	1480	5,920	300	300	1130	340
Golden Valley	1,000	1,000	1500	1,500	---	---	---	---
Hettinger	23,000	22,500	1160	26,110	1,300	1,300	1360	1,770
Slope	5,000	5,000	1510	7,550	900	900	1100	990
Stark	4,000	4,000	1480	5,920	---	---	---	---
Southwest	45,000	44,500	1290	57,400	2,500	2,500	1240	3,100
Burleigh	14,000	13,900	1440	20,010	400	400	1200	480
Emmons	6,000	5,700	1520	8,670	---	---	---	---
Grant	7,800	7,700	1320	10,170	9,000	8,700	1500	13,050
Morton	17,000	17,000	1470	24,980	600	600	1220	730
Sioux	200	200	1350	270	---	---	---	---
South Central	45,000	44,500	1440	64,100	10,000	9,700	1470	14,260
Dickey	30,000	30,000	1630	48,890	3,000	3,000	1490	4,460
LaMoure	62,000	62,000	1650	102,270	5,000	4,800	1550	7,430
Logan	7,000	7,000	1400	9,800	400	400	1200	480
McIntosh	11,000	10,500	1410	14,810	800	800	1250	1,000
Ransom	32,000	31,500	1710	53,850	3,300	3,200	1750	5,600
Richland	7,000	7,000	1580	11,060	500	500	1800	900
Sargent	26,000	26,000	1720	44,720	3,000	3,000	1750	5,250
Southeast	175,000	174,000	1640	285,400	16,000	15,700	1600	25,120
STATE	1,200,000	1,180,000	1520	1,793,600	200,000	195,000	1450	282,750

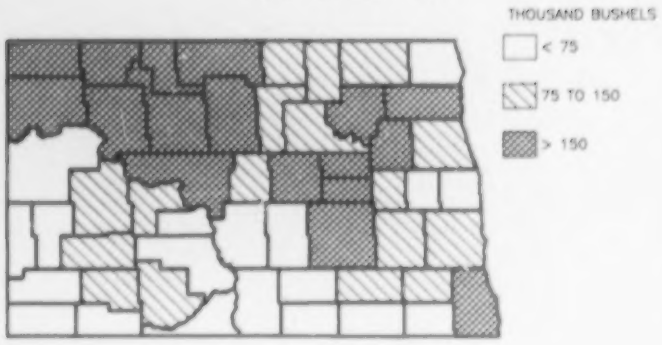
SUNFLOWER CONT.

North Dakota, 1988

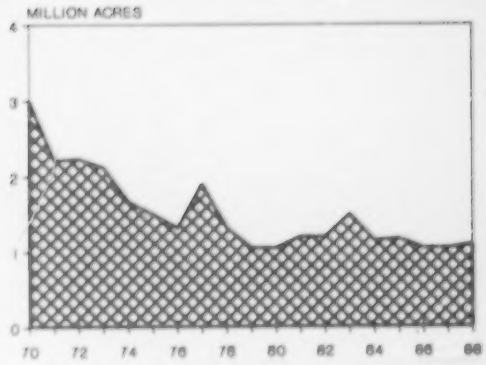
District and County	Oil				Non-Oil			
	Acres Planted	Acres Harvested	Yield Per Harvested Acre	Production	Acres Planted	Acres Harvested	Yield Per Harvested Acre	Production
	(Acres)	(Acres)	(Lbs.)	(000 Lbs.)	(Acres)	(Acres)	(Lbs.)	(000 Lbs.)
Burke	18,000	17,500	840	14,700	---	---	---	---
Divide	6,000	5,000	610	3,050	---	---	---	---
Mountrail	26,500	24,500	570	13,970	2,000	1,900	690	1,310
Renville	23,000	22,500	910	20,470	1,000	1,000	570	570
Ward	51,000	49,500	880	43,560	6,500	6,400	710	4,540
Williams	5,500	5,000	690	3,450	---	---	---	---
Northwest	130,000	124,000	800	99,200	9,500	9,300	690	6,420
Benson	51,000	41,500	670	27,810	13,500	12,600	590	7,430
Bottineau	40,000	38,000	680	25,840	3,600	3,500	670	2,350
McHenry	52,500	49,500	730	36,140	2,300	2,200	850	1,870
Pierce	35,500	28,500	610	17,390	8,000	7,800	750	5,850
Rolette	11,000	10,500	830	8,720	2,600	2,400	790	1,900
North Central	190,000	168,000	690	115,900	30,000	28,500	680	19,400
Cavalier	17,500	17,000	910	15,470	10,000	9,800	1070	10,480
Grand Forks	17,500	16,600	1210	20,090	4,000	3,900	1510	5,890
Nelson	48,000	46,000	1350	62,110	12,000	11,500	1180	13,570
Pembina	4,500	4,400	920	4,050	---	---	---	---
Ramsey	43,500	42,000	1070	44,940	30,500	30,000	1030	30,900
Towner	25,500	25,000	1040	26,000	3,500	3,400	750	2,550
Walsh	18,500	18,000	830	14,940	5,000	4,900	930	4,560
Northeast	175,000	169,000	1110	187,600	65,000	63,500	1070	67,950
Dunn	6,000	1,500	580	870	600	500	420	210
McKenzie	2,000	1,500	500	750	---	---	---	---
McLean	65,000	59,500	770	45,790	5,400	5,300	840	4,450
Mercer	5,000	4,500	550	2,470	500	400	600	240
Oliver	7,000	6,000	570	3,420	---	---	---	---
West Central	85,000	73,000	730	53,300	6,500	6,200	790	4,900
Eddy	27,000	25,800	970	25,020	12,500	12,000	900	10,800
Foster	53,000	49,500	1050	51,960	23,500	23,000	1100	25,310
Kidder	3,000	2,200	620	1,360	---	---	---	---
Sheridan	35,000	31,500	600	18,900	5,000	4,900	600	2,940
Stutsman	107,000	100,000	840	84,000	25,500	24,100	840	20,260
Wells	85,000	81,000	770	62,360	15,500	14,500	890	12,910
Central	310,000	290,000	840	243,600	82,000	78,500	920	72,220
Barnes	100,000	95,000	1100	104,500	10,000	9,700	1240	12,030
Cass	24,000	22,600	1040	23,510	4,200	3,700	1040	3,850
Griggs	30,000	29,000	1340	38,860	4,700	4,600	1290	5,930
Steele	15,000	14,500	1360	19,720	4,000	3,900	1560	6,080
Traill	1,000	900	1460	1,310	1,100	1,100	1840	2,020
East Central	170,000	162,000	1160	187,900	24,000	23,000	1300	29,910
Adams	6,000	5,800	480	2,780	---	---	---	---
Billings	500	300	600	180	---	---	---	---
Bowman	2,500	2,400	730	1,750	500	300	840	252
Golden Valley	1,000	600	600	360	---	---	---	---
Hettinger	20,000	18,700	580	10,840	---	---	---	---
Slope	2,500	2,400	760	1,820	500	400	770	308
Stark	7,500	6,800	550	3,740	---	---	---	---
Southwest	40,000	37,000	580	21,470	1,000	700	800	560
Burleigh	12,000	7,800	460	3,590	---	---	---	---
Emmons	9,500	7,300	360	2,630	---	---	---	---
Grant	7,500	6,700	720	4,830	11,000	10,500	840	8,820
Morton	15,000	14,500	470	6,820	---	---	---	---
Sioux	1,000	700	370	260	---	---	---	---
South Central	45,000	37,000	490	18,130	11,000	10,500	840	8,820
Dickey	37,000	36,000	890	32,040	2,500	2,300	600	1,380
LaMoure	73,000	70,000	1000	70,000	12,000	11,500	950	10,920
Logan	7,500	6,500	710	4,620	500	400	950	380
McIntosh	10,500	5,500	390	2,150	1,500	1,200	900	1,080
Ransom	38,000	34,500	870	30,010	1,000	1,000	930	930
Richland	10,000	9,500	1200	11,400	---	---	---	---
Sargent	29,000	28,000	810	22,680	3,500	3,400	920	3,130
Southeast	205,000	190,000	910	172,900	21,000	19,800	900	17,820
STATE	1,350,000	1,250,000	880	1,100,000	250,000	240,000	950	228,000

OATS

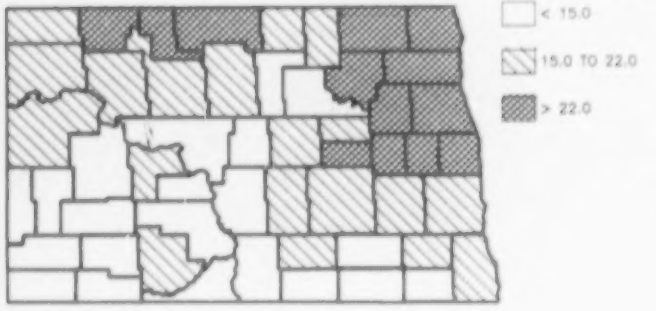
PRODUCTION
NORTH DAKOTA, 1988



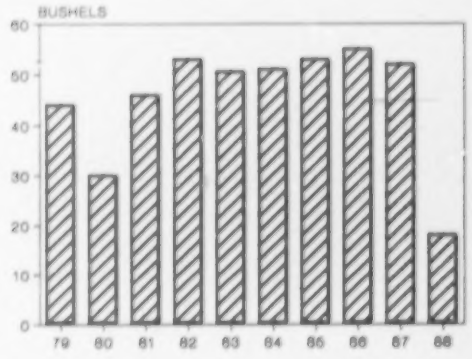
PLANTED ACRES
NORTH DAKOTA, 1970 - 88



YIELD PER HARVESTED ACRE
NORTH DAKOTA, 1988



YIELD PER HARVESTED ACRE
NORTH DAKOTA, 1979 - 88



North Dakota, 1979-88

Year	Acres Planted	Acres Harvested	Yield Per Harvested Acre	Production	Marketing Year Avg. Price	Value of Production	Value per Harvested Acre
	(Acres)	(Acres)	(Bu.)	(Bu.)	($/Bu.)	(Dols.)	(Dols.)
1979	1,050,000	840,000	44.0	36,960,000	1.17	43,243,000	51.48
1980	1,050,000	450,000	30.0	13,500,000	1.78	24,030,000	53.40
1981	1,200,000	960,000	46.0	44,160,000	1.65	72,864,000	75.90
1982	1,200,000	1,050,000	53.0	55,650,000	1.19	66,224,000	63.07
1983	1,500,000	1,260,000	50.5	63,630,000	1.37	87,173,000	69.18
1984	1,150,000	980,000	51.0	49,980,000	1.42	70,972,000	72.42
1985	1,175,000	840,000	53.0	44,520,000	1.05	46,746,000	55.65
1986	1,050,000	700,000	55.0	38,500,000	1.20	46,200,000	66.00
1987	1,050,000	700,000	52.0	36,400,000	1.57	57,148,000	81.64
1988	1,100,000	400,000	18.0	7,200,000	2.40	17,280,000	43.20

OATS CONT.

North Dakota, 1988 and 5-Year Average, 1983-87

District and County	1988					5-Year Average, 1983-87			
	Acres Planted	Acres Harvested	Yield Per Harvested Acre	Production		Acres Planted	Acres Harvested	Yield Per Harvested Acre	Production
				Quantity	Rank				
	(Acres)	(Acres)	(Bu.)	(Bu.)	(No.)	(Acres)	(Acres)	(Bu.)	(Bu.)
Burke	19,000	11,500	30.9	355,000	5	16,700	14,200	49.3	691,000
Divide	18,000	11,000	19.0	209,000	12	14,100	10,400	40.4	405,200
Mountrail	26,500	16,000	19.5	312,000	6	28,800	20,700	48.5	967,400
Renville	23,500	16,500	23.0	380,000	4	22,500	20,000	61.4	1,240,600
Ward	50,000	31,000	16.5	512,000	2	45,200	40,900	58.8	2,444,200
Williams	23,000	10,000	16.0	160,000	15	21,700	14,400	39.2	552,400
Northwest	160,000	96,000	20.1	1,928,000		149,000	120,600	52.9	6,300,800
Benson	17,000	6,500	13.5	88,000	30	17,400	14,500	46.6	670,200
Bottineau	27,500	21,500	27.1	582,000	1	23,500	19,700	55.8	1,084,200
McHenry	32,500	17,500	15.5	271,000	7	43,000	36,600	49.1	1,799,600
Pierce	15,000	6,000	13.0	78,000	32	21,200	18,100	43.9	783,000
Rolette	8,000	5,500	22.0	121,000	21	6,900	5,600	49.0	267,800
North Central	100,000	57,000	20.0	1,140,000		112,000	94,400	49.1	4,604,800
Cavalier	7,000	5,400	23.5	127,000	20	4,300	3,500	67.5	229,400
Grand Forks	6,000	4,300	27.0	116,000	22	7,800	5,900	65.4	380,600
Nelson	11,500	8,800	25.5	224,000	10	11,200	9,900	57.1	555,000
Pembina	3,000	2,200	23.2	51,000	37	5,700	3,300	63.0	211,200
Ramsey	7,500	6,200	25.0	155,000	16	4,500	3,700	65.0	236,000
Towner	7,500	5,300	20.0	106,000	24	3,500	2,200	52.7	113,800
Walsh	7,500	5,800	26.0	151,000	17	7,000	5,500	64.7	338,000
Northeast	50,000	38,000	24.5	930,000		44,000	33,900	62.0	2,064,000
Dunn	45,500	5,500	14.0	77,000	33	46,900	27,200	50.7	1,401,000
McKenzie	26,500	2,500	20.0	50,000	38	25,100	12,500	44.2	577,200
McLean	66,000	36,000	14.0	504,000	3	49,800	41,100	53.7	2,193,400
Mercer	33,000	6,500	17.5	114,000	23	36,800	23,900	54.3	1,295,400
Oliver	19,000	4,500	11.8	53,000	35	22,400	17,100	51.6	883,800
West Central	190,000	55,000	14.5	798,000		181,000	121,800	52.3	6,350,800
Eddy	14,000	10,000	21.0	210,000	11	15,400	13,500	50.0	666,400
Foster	17,500	11,200	23.0	258,000	8	11,100	8,800	56.9	495,200
Kidder	23,000	1,000	15.0	15,000	50	33,300	25,900	44.6	1,153,600
Sheridan	17,500	7,300	11.5	84,000	31	19,800	15,400	48.0	744,600
Stutsman	38,500	15,000	16.0	240,000	9	36,900	31,200	57.7	1,773,200
Wells	24,500	11,500	15.0	173,000	13	16,500	13,000	55.1	722,400
Central	135,000	56,000	17.5	980,000		133,000	107,800	51.8	5,555,400
Barnes	12,500	5,000	21.0	105,000	25	15,200	12,300	60.2	734,400
Cass	7,000	5,000	18.0	90,000	28	8,500	6,800	74.8	509,600
Griggs	7,500	5,800	25.5	148,000	18	11,100	9,100	51.8	479,600
Steele	2,000	1,700	26.5	45,000	40	3,300	2,500	65.2	162,600
Traill	1,000	500	34.0	17,000	49	2,900	2,400	64.5	152,400
East Central	30,000	18,000	22.5	405,000		41,000	33,100	61.8	2,038,600
Adams	19,000	3,000	10.0	30,000	43	24,100	18,800	48.5	944,400
Billings	12,000	1,300	11.5	15,000	50	15,000	7,600	42.6	353,400
Bowman	13,500	1,700	14.7	25,000	45	18,600	10,700	43.1	465,200
Golden Valley	11,000	2,500	12.0	30,000	43	13,100	8,200	38.8	316,200
Hettinger	34,000	13,500	10.5	142,000	19	25,400	20,600	51.1	1,061,400
Slope	9,500	3,500	10.0	35,000	41	12,700	7,800	46.6	367,000
Stark	41,000	8,500	11.5	98,000	26	50,100	36,500	49.7	1,820,000
Southwest	140,000	34,000	11.0	375,000		159,000	110,200	48.1	5,327,600
Burleigh	38,000	3,000	8.0	24,000	47	43,300	32,100	46.9	1,489,400
Emmons	49,000	2,000	6.5	13,000	52	56,600	38,200	49.2	1,907,000
Grant	33,000	5,000	15.0	75,000	34	42,100	30,100	51.1	1,515,400
Morton	36,000	2,000	12.5	25,000	45	56,900	38,100	52.2	1,971,800
Sioux	14,000	1,000	12.0	12,000	53	15,100	8,700	46.0	408,800
South Central	170,000	13,000	11.5	149,000		214,000	147,200	49.8	7,292,400
Dickey	19,000	4,000	8.0	32,000	42	21,400	18,300	52.5	961,000
LaMoure	25,000	7,200	12.5	90,000	28	23,500	20,100	58.2	1,159,200
Logan	18,000	2,500	20.0	50,000	38	21,900	16,500	50.6	820,600
McIntosh	29,000	1,500	12.0	18,000	48	36,600	30,700	47.8	1,487,600
Ransom	12,500	5,100	18.0	92,000	27	17,100	14,800	62.3	924,000
Richland	11,500	7,500	21.5	161,000	14	17,500	14,600	69.2	1,032,800
Sargent	10,000	5,200	10.0	52,000	36	14,000	12,100	57.0	686,400
Southeast	125,000	33,000	15.0	495,000		152,000	127,000	55.7	7,071,600
STATE	1,100,000	400,000	18.0	7,200,000		1,185,000	896,000	52.3	46,606,000

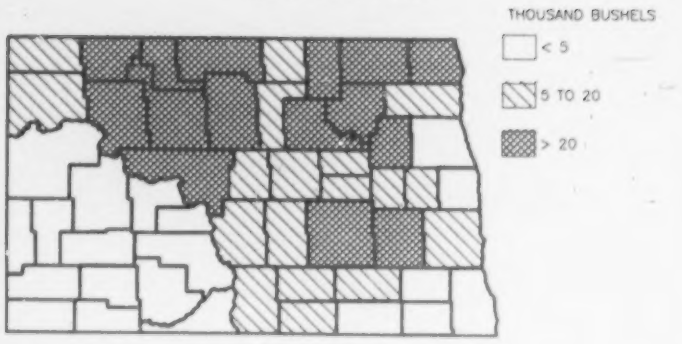
OATS CONT.

North Dakota, 1986 and 1987

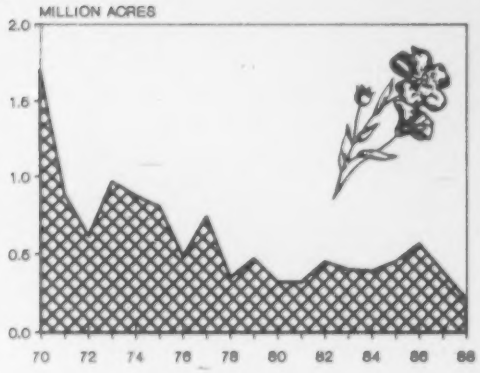
District and County	1986				1987			
	Acres Planted	Acres Harvested	Yield Per Harvested Acre	Production	Acres Planted	Acres Harvested	Yield Per Harvested Acre	Production
	(Acres)	(Acres)	(Bu.)	(Bu.)	(Acres)	(Acres)	(Bu.)	(Bu.)
Burke	14,000	10,000	57.0	570,000	11,000	8,500	53.5	455,000
Divide	12,000	7,400	60.0	444,000	9,500	7,500	56.0	420,000
Mountrail	21,000	12,600	66.0	831,000	25,500	17,000	43.5	740,000
Renville	18,000	14,500	73.5	1,066,000	14,000	9,000	44.8	403,000
Ward	37,000	30,000	69.0	2,070,000	28,000	21,000	45.0	945,000
Williams	18,000	10,500	68.0	714,000	17,000	11,000	40.0	440,000
Northwest	120,000	85,000	67.0	5,695,000	105,000	74,000	46.0	3,403,000
Benson	13,000	10,500	44.0	462,000	19,000	15,000	54.0	810,000
Bottineau	15,000	12,500	68.5	856,000	23,500	18,000	49.0	882,000
McHenry	40,000	31,500	51.?	1,612,000	40,000	30,000	44.5	1,335,000
Pierce	16,000	12,500	49.0	613,000	16,000	12,000	44.0	528,000
Rolette	6,000	4,000	55.5	222,000	6,500	5,000	49.0	245,000
North Central	90,000	71,000	53.0	3,765,000	105,000	80,000	47.5	3,800,000
Cavalier	4,000	3,000	76.0	228,000	4,000	3,000	72.0	216,000
Grand Forks	7,000	5,000	64.0	320,000	4,500	3,500	72.0	252,000
Nelson	7,000	5,500	55.3	304,000	8,000	6,000	60.0	360,000
Pembina	4,000	3,000	60.0	180,000	3,000	2,500	62.0	155,000
Ramsey	4,000	3,000	63.0	189,000	2,500	2,000	73.0	146,000
Towner	3,000	1,500	54.0	81,000	3,000	2,000	60.5	121,000
Walsh	6,000	4,000	74.5	298,000	5,000	3,000	71.0	213,000
Northeast	35,000	25,000	64.0	1,600,000	30,000	22,000	66.5	1,463,000
Dunn	45,000	25,000	56.0	1,400,000	47,500	24,000	46.0	1,104,000
McKenzie	25,000	13,000	56.0	728,000	27,500	13,000	48.0	624,000
McLean	40,000	32,000	59.0	1,888,000	57,000	39,500	50.0	1,975,000
Mercer	37,000	23,000	61.4	1,412,000	37,000	20,000	51.3	1,025,000
Oliver	23,000	17,000	56.0	952,000	21,000	12,500	49.0	613,000
West Central	170,000	110,000	58.0	6,380,000	190,000	109,000	49.0	5,341,000
Eddy	13,000	9,500	52.5	499,000	13,500	10,500	54.0	567,000
Foster	10,000	5,200	63.5	330,000	11,500	9,500	56.0	532,000
Kidder	30,000	21,000	44.9	943,000	29,500	21,000	49.0	1,029,000
Sheridan	18,000	13,000	48.0	624,000	19,500	12,500	49.7	621,000
Stutsman	30,000	22,300	58.5	1,305,000	32,500	25,500	65.5	1,670,000
Wells	14,000	9,000	51.0	459,000	13,500	10,000	56.5	565,000
Central	115,000	80,000	52.0	4,160,000	120,000	89,000	56.0	4,984,000
Barnes	11,000	7,800	61.5	480,000	14,000	9,500	58.0	551,000
Cass	6,000	4,500	78.0	351,000	8,000	6,500	72.0	468,000
Griggs	11,000	6,200	51.5	319,000	7,500	5,500	46.0	253,000
Steele	3,000	2,800	60.0	168,000	3,500	2,000	63.0	126,000
Traill	4,000	2,700	63.0	170,000	2,000	1,500	68.0	102,000
East Central	35,000	24,000	62.0	1,488,000	35,000	25,000	60.0	1,500,000
Adams	23,000	14,000	46.0	644,000	13,500	9,000	46.0	414,000
Billings	16,000	9,500	56.0	532,000	18,000	10,500	45.5	478,000
Bowman	20,000	9,200	41.5	382,000	13,000	6,500	46.0	299,000
Golden Valley	11,000	5,800	39.0	226,000	12,500	8,000	52.0	416,000
Hettinger	20,000	14,000	48.0	672,000	34,000	26,500	54.5	1,444,000
Slope	12,000	6,700	47.0	315,000	9,500	5,500	46.7	257,000
Stark	48,000	30,800	50.3	1,549,000	49,500	27,000	48.0	1,296,000
Southwest	150,000	90,000	48.0	4,320,000	150,000	93,000	49.5	4,604,000
Burleigh	40,000	29,000	50.5	1,465,000	43,500	27,500	50.5	1,388,000
Emmons	55,000	29,000	43.5	1,262,000	45,000	29,000	53.5	1,551,000
Grant	40,000	22,000	57.0	1,254,000	39,500	24,000	52.0	1,248,000
Morton	60,000	36,000	58.3	2,098,000	47,500	29,000	54.0	1,566,000
Sioux	15,000	9,000	47.0	423,000	14,500	7,500	42.5	319,000
South Central	210,000	125,000	52.0	6,502,000	190,000	117,000	51.9	6,072,000
Dickey	18,000	13,000	48.0	624,000	19,000	14,500	52.5	761,000
LaMoure	20,000	12,400	61.5	763,000	23,500	20,000	66.4	1,327,000
Logan	19,000	11,600	49.0	568,000	19,000	9,500	56.0	532,000
McIntosh	35,000	26,500	41.4	1,098,000	26,000	17,500	48.5	849,000
Ransom	12,000	10,400	61.0	634,000	14,000	10,500	55.5	583,000
Richland	12,000	8,700	57.0	496,000	13,500	11,000	65.5	721,000
Sargent	9,000	7,400	55.0	407,000	10,000	8,000	57.5	460,000
Southeast	125,000	90,000	51.0	4,590,000	125,000	91,000	57.5	5,233,000
STATE	1,050,000	700,000	55.0	38,500,000	1,050,000	700,000	52.0	36,400,000

FLAXSEED

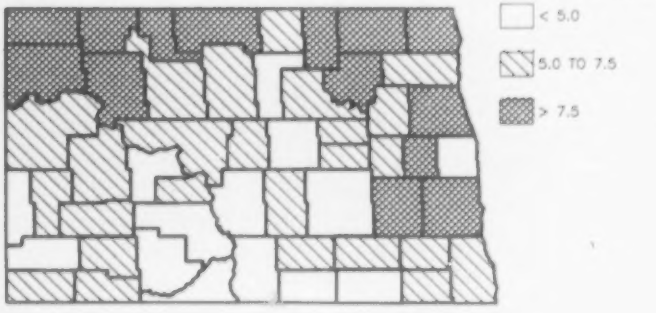
PRODUCTION
NORTH DAKOTA, 1988



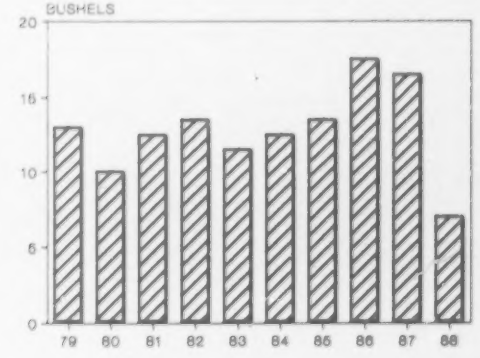
PLANTED ACRES
NORTH DAKOTA, 1970 - 88



YIELD PER HARVESTED ACRE
NORTH DAKOTA, 1988



YIELD PER HARVESTED ACRE
NORTH DAKOTA, 1979 - 88



North Dakota, 1979-88

Year	Acres Planted	Acres Harvested	Yield Per Harvested Acre	Production	Marketing Year Avg. Price	Value of Production	Value per Harvested Acre
	(Acres)	(Acres)	(Bu.)	(Bu.)	($/Bu.)	(Dols.)	(Dols.)
1979	480,000	460,000	13.0	5,980,000	5.76	34,445,000	74.88
1980	330,000	270,000	10.0	2,700,000	7.18	19,386,000	71.80
1981	330,000	320,000	12.5	4,000,000	6.57	26,280,000	82.13
1982	460,000	435,000	13.5	5,873,000	5.14	30,187,000	69.40
1983	410,000	400,000	11.5	4,600,000	6.83	31,418,000	78.55
1984	400,000	390,000	12.5	4,875,000	6.07	29,591,000	75.87
1985	460,000	445,000	13.5	6,008,000	5.00	30,040,000	67.51
1986	575,000	545,000	17.5	9,538,000	3.45	32,906,000	60.38
1987	400,000	395,000	16.5	6,518,000	3.39	22,096,000	55.94
1988	220,000	185,000	7.0	1,295,000	7.65	9,907,000	53.55

FLAXSEED CONT.

North Dakota, 1988 and 5-Year Average, 1983-87

District and County	1988					5-Year Average, 1983-87			
	Acres Planted	Acres Harvested	Yield Per Harvested Acre	Production		Acres Planted	Acres Harvested	Yield Per Harvested Acre	Production
				Quantity	Rank				
	(Acres)	(Acres)	(Bu.)	(Bu.)	(No.)	(Acres)	(Acres)	(Bu.)	(Bu.)
Burke	8,500	8,400	10.5	88,200	6	4,400	4,200	13.9	68,500
Divide	600	600	10.0	6,000	30	1,700	1,200	13.3	16,700
Mountrail	3,300	2,900	10.0	29,000	13	4,200	3,900	12.0	53,900
Renville	13,000	12,500	9.0	112,500	3	12,500	12,300	16.1	212,700
Ward	22,000	21,500	6.1	131,200	2	18,700	17,900	14.8	279,300
Williams	600	600	8.5	5,100	33	1,200	1,100	10.4	12,500
Northwest	48,000	46,500	8.0	372,000		42,700	40,800	14.7	643,600
Benson	6,300	3,600	6.0	21,600	14	18,100	17,700	14.5	261,300
Bottineau	12,500	11,000	8.8	97,200	5	17,100	16,200	14.2	235,100
McHenry	6,200	6,000	5.0	30,000	12	13,000	12,500	12.6	160,000
Pierce	5,500	3,800	4.0	15,200	20	16,200	16,000	12.2	196,300
Rolette	4,000	3,600	5.0	18,000	17	6,000	5,900	14.9	94,600
North Central	34,500	28,000	6.5	182,000		70,400	68,300	13.6	947,300
Cavalier	21,000	20,500	8.0	164,000	1	24,300	23,900	20.7	495,900
Grand Forks	600	600	8.0	4,800	34	4,500	4,400	14.7	66,100
Nelson	5,600	5,500	7.5	41,300	9	13,000	12,200	14.1	180,000
Pembina	2,300	2,100	10.0	21,000	15	5,100	5,000	21.0	106,900
Ramsey	14,000	13,500	7.9	106,700	4	21,900	20,800	17.1	360,100
Towner	11,000	10,500	8.0	84,000	7	21,600	21,200	16.4	355,200
Walsh	3,000	2,800	6.5	18,200	16	8,700	8,500	17.8	154,700
Northeast	57,500	55,500	7.9	440,000		99,100	95,900	17.6	1,718,900
Dunn	400	200	5.0	1,000	43	600	500	10.4	5,700
McKenzie	100	100	5.0	500	48	300	300	11.3	2,800
McLean	13,000	11,000	6.1	67,100	8	24,700	24,300	13.7	338,900
Mercer	900	400	4.0	1,600	40	3,100	2,900	12.8	34,300
Oliver	1,100	800	6.0	4,800	34	4,400	4,300	12.2	51,200
West Central	15,500	12,500	6.0	75,000		33,100	32,300	13.3	432,900
Eddy	1,600	1,500	6.0	9,000	25	5,400	5,200	10.9	58,400
Foster	1,900	1,800	5.0	9,000	25	4,800	4,600	13.9	62,200
Kidder	1,800	1,200	7.5	9,000	25	8,400	8,200	11.4	93,100
Sheridan	5,200	3,600	5.0	18,000	17	14,000	13,800	13.9	195,800
Stutsman	11,500	7,400	4.9	36,000	10	23,900	23,300	13.3	300,700
Wells	6,000	3,500	4.0	14,000	21	15,400	15,100	13.7	205,400
Central	28,000	19,000	5.0	95,000		71,900	70,200	13.1	915,700
Barnes	6,600	4,500	8.0	36,000	10	17,100	16,800	15.9	271,000
Cass	1,300	1,000	8.0	8,000	29	4,200	4,200	17.5	74,400
Griggs	1,800	1,500	6.5	9,800	24	6,900	6,700	13.9	102,600
Steele	1,300	1,000	10.2	10,200	22	7,200	7,100	16.2	125,700
Traill	---	---	---	---	--	900	900	18.3	16,300
East Central	11,000	8,000	8.0	64,000		36,300	35,700	15.9	590,000
Adams	200	200	5.0	1,000	43	900	800	11.6	9,100
Billings	100	100	5.0	500	48	300	300	10.0	2,200
Bowman	700	600	5.0	3,000	37	700	600	9.3	6,000
Golden Valley	---	---	---	---	--	100	100	6.0	500
Hettinger	200	200	5.0	1,000	43	2,300	2,200	11.4	25,800
Slope	---	---	---	---	--	600	600	10.2	5,700
Stark	800	400	5.0	2,000	39	1,900	1,700	10.7	19,200
Southwest	2,000	1,500	5.0	7,500		6,700	6,300	10.8	68,600
Burleigh	3,000	2,200	2.5	5,500	32	13,800	13,300	11.1	145,100
Emmons	6,000	2,500	3.5	8,800	28	14,000	13,600	11.6	156,800
Grant	300	200	4.0	800	47	1,000	900	10.9	9,100
Morton	1,600	1,000	4.0	4,000	36	2,500	2,400	11.5	28,000
Sioux	100	100	4.0	400	50	600	600	8.3	4,700
South Central	11,000	6,000	3.3	19,500		31,900	30,700	11.3	343,700
Dickey	1,000	800	3.5	2,800	38	5,600	5,400	11.5	62,700
LaMoure	3,700	3,300	5.3	17,500	19	18,200	17,400	13.4	227,000
Logan	3,000	2,000	5.1	10,200	22	10,700	10,400	12.2	125,100
McIntosh	3,800	1,300	4.5	5,900	31	16,100	15,500	9.5	146,000
Ransom	400	200	5.0	1,000	43	2,500	2,400	13.9	33,200
Richland	300	200	7.0	1,400	41	1,500	1,500	14.6	22,500
Sargent	300	200	6.0	1,200	42	2,300	2,200	13.8	30,700
Southeast	12,500	8,000	5.0	40,000		56,900	54,800	12.0	647,200
STATE	**220,000**	**185,000**	**7.0**	**1,295,000**		**449,000**	**435,000**	**14.3**	**6,307,800**

FLAXSEED CONT.

North Dakota, 1986 and 1987

District and County	1986				1987			
	Acres Planted	Acres Harvested	Yield Per Harvested Acre	Production	Acres Planted	Acres Harvested	Yield Per Harvested Acre	Production
	(Acres)	(Acres)	(Bu.)	(Bu.)	(Acres)	(Acres)	(Bu.)	(Bu.)
Burke	5,000	4,600	21.0	96,600	9,600	9,500	19.0	180,500
Divide	3,000	2,000	15.0	30,000	1,100	1,100	20.0	22,000
Mountrail	5,000	4,800	16.5	79,200	8,400	8,400	15.0	126,000
Renville	16,000	16,000	22.0	352,000	22,500	22,300	18.0	401,000
Ward	28,000	25,000	19.0	476,000	22,500	22,300	17.4	387,600
Williams	2,000	1,600	12.0	19,200	1,400	1,400	16.0	22,400
Northwest	59,000	54,000	19.5	1,053,000	65,500	65,000	17.5	1,139,500
Benson	22,000	20,800	20.0	416,000	17,500	17,500	16.5	289,000
Bottineau	21,500	20,400	18.0	367,200	16,500	16,000	18.0	288,000
McHenry	16,000	15,500	13.8	214,000	14,500	14,500	15.0	218,000
Pierce	19,500	19,000	15.0	285,000	14,000	14,000	13.5	189,000
Rolette	9,000	8,800	21.0	184,800	7,500	7,500	17.0	127,500
North Central	88,000	84,500	17.4	1,467,000	70,000	69,500	16.0	1,111,500
Cavalier	28,000	27,500	23.8	655,000	23,500	23,000	22.5	517,500
Grand Forks	8,000	7,600	18.0	136,800	2,500	2,500	14.0	35,000
Nelson	20,000	17,500	18.0	315,000	13,000	13,000	16.5	214,500
Pembina	9,000	8,800	23.0	202,400	4,500	4,500	19.0	85,500
Ramsey	30,000	27,000	19.0	513,000	19,000	18,500	19.0	351,500
Towner	28,000	27,000	19.0	513,000	23,500	23,500	18.0	423,000
Walsh	12,000	11,600	23.0	266,800	7,500	7,500	19.5	146,000
Northeast	135,000	127,000	20.5	2,602,000	93,500	92,500	19.2	1,773,000
Dunn	500	500	12.0	6,000	500	500	13.0	6,500
McKenzie	1,000	800	10.0	8,000	200	200	13.0	2,600
McLean	31,500	30,800	17.1	525,400	22,500	22,500	18.0	406,000
Mercer	2,500	2,500	17.0	42,500	2,300	1,800	16.5	29,700
Oliver	4,500	4,400	14.0	61,600	3,500	3,500	15.5	54,200
West Central	40,000	39,000	16.5	643,500	29,000	28,500	17.5	499,000
Eddy	7,000	6,800	13.0	88,400	5,300	5,000	14.5	72,500
Foster	5,500	5,200	18.0	93,600	2,200	2,200	16.0	35,200
Kidder	9,000	9,000	14.5	130,500	5,000	5,000	12.5	62,500
Sheridan	17,000	16,600	18.0	298,800	12,500	12,500	14.0	175,000
Stutsman	26,000	24,400	16.0	390,700	18,000	17,500	16.5	288,800
Wells	20,500	20,000	15.5	310,000	11,500	11,300	15.0	169,500
Central	85,000	82,000	16.0	1,312,000	54,500	53,500	15.0	803,500
Barnes	25,000	24,800	18.1	449,900	12,500	12,300	16.0	196,600
Cass	6,000	6,000	24.0	144,000	2,200	2,200	17.0	37,400
Griggs	13,500	13,200	18.0	237,600	5,300	5,200	12.5	65,000
Steele	14,500	14,000	21.5	301,000	6,000	5,800	12.5	72,500
Traill	1,000	1,000	18.0	18,000	500	500	13.0	6,500
East Central	60,000	59,000	19.5	1,150,500	26,500	26,000	14.5	378,000
Adams	500	300	9.0	2,700	300	300	17.7	5,300
Billings	200	200	8.0	1,600	100	100	18.0	1,800
Bowman	400	200	5.0	1,000	100	100	16.0	1,600
Hettinger	2,700	2,500	11.0	27,500	2,500	2,500	14.5	36,300
Slope	400	400	10.0	4,000	100	100	13.0	1,300
Stark	1,800	1,400	13.0	18,200	2,900	2,900	13.0	37,700
Southwest	6,000	5,000	11.0	55,000	6,000	6,000	14.0	84,000
Burleigh	17,000	15,200	12.0	182,500	9,500	9,500	13.5	128,000
Emmons	15,500	14,000	11.0	154,000	11,500	11,500	14.0	161,000
Grant	700	500	15.0	7,500	800	800	13.0	10,400
Morton	4,000	3,500	16.0	56,000	1,500	1,500	11.0	16,500
Sioux	800	800	10.0	8,000	200	200	10.5	2,100
South Central	38,000	34,000	12.0	408,000	23,500	23,500	13.5	318,000
Dickey	8,000	7,600	13.0	98,800	2,000	2,000	11.5	23,000
LaMoure	20,000	18,200	15.2	277,300	10,500	10,200	15.5	158,100
Logan	12,500	12,200	16.0	195,200	5,500	5,400	15.0	81,000
McIntosh	16,000	15,200	10.0	152,000	9,500	9,000	11.5	103,500
Ransom	2,700	2,600	17.0	44,200	2,000	1,900	11.5	21,900
Richland	1,800	1,800	20.0	36,000	700	700	12.0	8,400
Sargent	3,000	2,900	15.0	43,500	1,300	1,300	12.0	15,600
Southeast	64,000	60,500	14.0	847,000	31,500	30,500	13.5	411,500
STATE	575,000	545,000	17.5	9,538,000	400,000	395,000	16.5	6,518,000

RYE

North Dakota, 1988 and 1987

District and County	1988					1987			
	Acres Planted	Acres Harvested	Yield Per Harvested Acre	Production		Acres Planted	Acres Harvested	Yield Per Harvested Acre	Production
				Quantity	Rank				
	(Acres)	(Acres)	(Bu.)	(Bu.)	(No.)	(Acres'	(Acres)	(Bu.)	(Bu.)
Burke	2,900	2,100	18.5	38,900	13	5,800	5,700	24.0	136,800
Divide	5,700	4,300	13.0	55,900	7	11,000	10,500	24.0	252,000
Mountrail	2,900	2,600	10.0	26,000	16	3,500	3,500	17.0	59,500
Renville	1,300	900	21.0	18,900	23	1,100	1,100	16.5	18,200
Ward	2,200	1,600	11.0	17,600	24	1,100	1,100	17.0	18,700
Williams	14,000	8,000	11.5	91,900	4	15,000	14,600	28.0	408,800
Northwest	29,000	19,500	12.8	249,200		37,500	36,500	24.5	894,000
Benson	1,700	1,200	10.5	12,600	29	2,000	1,900	32.0	60,800
Bottineau	6,400	6,'00	18.5	112,900	1	7,500	7,200	28.0	201,500
McHenry	4,700	3,400	14.5	49,300	8	5,500	5,300	25.0	132,500
Pierce	3,200	2,500	16.0	40,000	12	7,000	6,100	25.0	152,200
Rolette	1,000	800	11.5	9,200	31	4,000	4,000	22.5	90,000
North Central	17,000	14,000	16.0	224,000		26,000	24,500	26.0	637,000
Cavalier	100	100	12.0	1,200	51	100	100	39.0	3,900
Grand Forks	300	200	13.5	2,700	46	1,000	1,000	31.5	31,500
Nelson	900	700	29.0	20,300	21	1,600	1,600	38.0	60,800
Pembina	300	200	21.5	4,300	43	100	100	29.0	2,900
Ramsey	300	300	28.0	8,400	34	200	200	37 0	7,400
Towner	1,200	700	12.0	8,400	34	300	200	32.0	6,400
Walsh	200	200	19.5	3,900	45	--	--	--	--
Northeast	3,300	2,400	20.5	49,200		3,300	3,200	35.3	112,900
Dunn	2,000	1,300	11.5	15,000	27	2,500	2,100	28.5	59,800
McKenzie	1,400	700	11.0	7,700	37	1,000	900	26.0	23,400
McLean	1,700	1,100	16.0	17,600	24	4,500	4,000	25.0	100,000
Mercer	800	500	16.0	8,000	36	400	300	26.0	7,800
Oliver	400	300	21.0	6,300	39	300	300	32.0	9,600
West Central	6,300	3,900	14.0	54,600		8,700	7,600	26.4	200,600
Eddy	1,800	1,100	18.0	19,800	22	3,500	3,500	33.0	115,600
Foster	1,600	1,300	24.5	31,900	14	2,000	1,900	32.0	60,800
Kidder	600	400	13.0	5,200	41	1,000	1,000	36.0	36,000
Sheridan	800	500	14.0	7,000	38	400	400	24.0	9,600
Stutsman	6,300	5,300	21.2	112,300	2	10,200	10,000	42.0	420,000
Wells	1,400	900	10.0	9,000	33	7,500	7,000	34.0	238,000
Central	12,500	9,500	19.5	185,200		24,600	23,800	37.0	880,000
Barnes	3,500	2,600	17.0	44,200	10	3,200	3,200	40.0	128,000
Cass	200	200	21.0	4,200	44	200	100	40.0	4,000
Griggs	100	100	13.0	1,300	49	--	--	--	--
Steele	100	100	13.0	1,300	49	200	200	40.0	8,000
East Central	3,900	3,000	17.0	51,000		3,600	3,500	40.0	140,000
Adams	4,100	2,400	11.0	26,400	15	5,700	5,500	36.0	198,000
Billings	600	200	11.5	2,300	47	1,500	1,400	29.0	40,600
Bowman	2,700	1,700	8.0	13,600	28	1,000	1,000	28.5	28,500
Golden Valley	200	200	7.0	1,400	48	--	--	--	--
Hettinger	9,300	6,200	14.5	89,900	5	14,500	12,000	32.0	384,000
Slope	4,100	3,000	15.0	45,000	9	8,500	8,000	39.0	312,000
Stark	3,000	1,300	7.0	9,100	32	5,000	4,600	30.5	140,400
Southwest	24,000	15,000	12.5	187,700		36,200	32,500	34.0	1,103,500
Burleigh	2,700	1,800	11.5	20,700	20	1,500	1,300	29.0	37,700
Emmons	1,400	1,100	9.0	9,900	30	2,400	2,200	28.5	62,700
Grant	4,800	3,300	12.5	41,200	11	5,600	5,300	33.5	177,500
Morton	1,400	400	11.0	4,400	42	1,000	700	23.0	16,100
Sioux	200	100	9.0	900	52	600	500	22.0	11,000
South Central	10,500	6,700	11.5	77,100		11,100	10,000	30.5	305,000
Dickey	7,800	5,600	14.5	81,200	6	5,400	5,300	37.5	199,000
LaMoure	7,500	5,200	19.0	98,800	3	8,100	8,000	41.0	328,000
Logan	600	400	15.0	6,000	40	1,700	1,600	27.0	43,200
McIntosh	2,800	1,200	13.5	16,200	26	4,000	3,800	29.0	110,200
Ransom	1,900	1,400	18.0	25,200	17	1,600	1,600	32.0	51,200
Richland	1,000	800	26.0	20,800	19	1,000	1,000	37.0	37,000
Sargent	1,900	1,400	17.0	23,800	18	2,200	2,100	35.0	73,400
Southeast	23,500	16,000	17.0	272,000		24,000	23,400	36.0	842,000
STATE	130,000	90,000	15.0	1,350,000		175,000	165,000	31.0	5,115,000

CORN

North Dakota, 1988

District and County	All Corn Acres Planted	Corn for Grain				Corn for Silage		
		Acres Harvested	Yield Per Harvested Acre	Production		Acres Harvested	Yield Per Harvested Acre	Production
				Quantity	Rank			
	(Acres)	(Acres)	(Bu.)	(Bu.)	(No.)	(Acres)	(Tons)	(Tons)
Burke	900	300	19.7	5,900	41	400	4.0	1,600
Divide	800	--	--	--	--	200	4.5	900
Mountrail	1,400	200	14.5	2,900	47	200	2.0	400
Renville	1,200	400	13.5	5,400	43	600	1.7	1,000
Ward	6,700	200	13.0	2,600	49	5,600	2.6	14,800
Williams	2,000	300	33.0	9,900	36	1,000	8.1	8,100
Northwest	13,000	1,400	19.1	26,700		8,000	3.4	26,800
Benson	9,000	2,500	42.6	106,600	20	4,300	1.9	8,000
Bottineau	1,600	200	23.0	4,600	44	1,300	3.8	4,900
McHenry	12,000	3,000	37.6	112,700	19	5,900	3.3	19,300
Pierce	6,500	400	20.0	8,000	38	3,900	2.2	8,600
Rolette	1,900	200	22.5	4,500	45	300	3.7	1,100
North Central	31,000	6,300	37.5	236,400		15,700	2.7	41,900
Cavalier	800	500	50.0	25,000	28	200	2.5	500
Grand Forks	16,500	13,400	68.9	923,200	6	2,700	6.7	18,100
Nelson	4,000	1,400	49.5	69,300	24	2,600	4.7	12,200
Pembina	7,800	5,700	55.4	316,000	13	1,200	2.7	3,200
Ramsey	2,400	1,000	33.5	33,500	27	1,000	4.1	4,100
Towner	1,000	300	24.7	7,400	39	600	3.7	2,200
Walsh	8,500	6,300	54.4	343,000	10	2,000	3.5	7,000
Northeast	41,000	28,600	60.0	1,717,400		10,300	4.6	47,300
Dunn	17,500	200	14.5	2,900	47	8,500	1.8	15,300
McKenzie	4,500	1,300	58.0	75,400	23	2,600	8.7	22,700
McLean	10,000	2,000	59.7	119,400	18	6,400	4.1	26,500
Mercer	8,500	200	101.0	20,200	32	7,000	4.1	29,000
Oliver	9,500	300	43.0	12,900	34	7,800	3.1	24,400
West Central	50,000	4,000	57.7	230,800		32,300	3.7	117,900
Eddy	8,000	2,800	50.0	140,000	17	5,100	4.5	23,200
Foster	9,000	3,900	53.6	209,100	15	4,500	5.6	25,300
Kidder	15,500	5,300	61.7	326,800	11	6,800	3.3	22,300
Sheridan	4,500	700	21.6	15,100	33	2,900	2.1	6,100
Stutsman	21,500	5,300	46.1	244,400	14	11,900	2.7	32,100
Wells	15,500	3,100	29.2	90,600	27	9,900	2.3	22,800
Central	74,000	21,100	48.6	1,026,000		41,100	3.2	131,800
Barnes	20,000	8,800	36.0	316,700	12	9,000	3.6	32,400
Cass	71,000	56,900	50.8	2,891,800	2	8,800	3.7	32,500
Griggs	5,000	2,300	64.4	148,200	16	2,500	6.5	16,300
Steele	9,000	7,600	55.3	420,000	9	1,000	4.7	4,700
Traill	10,000	9,400	69.0	648,600	7	500	7.2	3,600
East Central	115,000	85,000	52.1	4,425,300		21,800	4.1	89,500
Adams	8,300	200	19.5	3,900	46	6,400	2.1	13,400
Billings	1,500	--	--	--	--	1,000	1.7	1,700
Bowman	3,600	500	16.6	8,300	37	2,900	1.0	2,900
Golden Valley	1,100	--	--	--	--	400	6.5	2,600
Hettinger	8,000	700	29.6	20,700	30	4,700	2.4	11,300
Slope	2,500	400	17.5	7,000	40	1,600	1.9	3,000
Stark	11,000	700	16.0	11,200	35	8,900	1.7	15,100
Southwest	36,000	2,500	20.4	51,100		25,900	1.9	50,000
Burleigh	15,500	300	68.7	20,600	31	10,100	3.7	37,400
Emmons	26,500	900	66.0	59,400	25	13,300	2.8	36,900
Grant	23,000	2,500	40.4	101,000	21	16,900	2.2	36,400
Morton	30,000	300	73.7	22,100	29	25,000	3.2	79,300
Sioux	5,000	100	59.0	5,900	41	2,300	2.4	5,500
South Central	100,000	4,100	51.0	209,000		67,600	2.9	195,500
Dickey	46,000	24,000	57.5	1,380,000	4	18,100	1.9	33,900
LaMoure	30,500	12,700	40.8	518,700	8	12,000	3.0	35,800
Logan	12,000	500	82.8	41,400	26	6,300	1.8	11,500
McIntosh	11,500	--	--	--	--	4,100	1.4	5,700
Ransom	51,000	34,200	64.3	2,200,300	3	15,100	3.4	51,000
Richland	145,000	130,600	66.8	8,721,400	1	9,900	3.7	36,600
Sargent	44,000	25,000	50.2	1,255,500	5	11,800	2.1	24,800
Southeast	340,000	227,000	62.2	14,117,300		77,300	2.6	199,300
STATE	800,000	380,000	58.0	22,040,000		300,000	3.0	900,000

CORN CONT.

North Dakota, 1987

District and County	All Corn Acres Planted	Corn for Grain			Corn for Silage		
		Harvested	Yield per Acre	Production	Harvested	Yield per Acre	Production
	(Acres)	(Acres)	(Bu.)	(Bu.)	(Acres)	(Tons)	(Tons)
Burke	800	500	50.0	25,000	300	5.0	1,500
Divide	500	--	--	--	300	7.7	2,300
Mountrail	1,400	200	57.5	11,500	1,100	6.7	7,400
Renville	1,500	1,000	69.0	69,000	200	6.0	1,200
Ward	4,200	1,900	77.8	147,900	1,800	7.5	13,500
Williams	1,600	400	93.0	37,200	600	12.2	7,300
Northwest	10,000	4,000	72.7	290,600	4,300	7.7	33,200
Benson	9,000	5,100	73.8	376,500	3,600	7.9	28,400
Bottineau	2,000	700	70.0	49,000	1,000	6.5	6,500
McHenry	13,000	7,600	63.8	485,100	4,200	10.7	44,900
Pierce	6,000	2,900	69.0	200,100	2,300	7.7	17,700
Rolette	2,000	900	57.6	51,800	900	7.7	6,900
North Central	32,000	17,200	67.6	1,162,500	12,000	8.7	104,400
Cavalier	500	300	70.7	21,200	200	6.5	1,300
Grand Forks	16,500	14,000	95.4	1,335,300	2,200	8.3	18,200
Nelson	4,000	2,100	67.5	141,800	1,900	7.6	14,500
Pembina	8,000	6,500	98.4	639,600	1,400	7.0	9,800
Ramsey	2,300	1,800	81.1	146,000	500	6.2	3,100
Towner	1,200	400	61.0	24,400	800	8.5	6,800
Walsh	7,500	6,400	109.6	701,700	1,000	7.1	7,100
Northeast	40,000	31,500	95.6	3,010,000	8,000	7.6	60,800
Dunn	15,500	500	59.0	29,500	12,000	7.6	90,800
McKenzie	3,000	400	118.0	47,200	2,500	12.8	32,100
McLean	9,700	4,700	80.6	379,000	4,100	9.3	38,100
Mercer	7,800	800	85.0	68,000	5,000	5.7	28,600
Oliver	8,000	2,500	67.5	168,800	4,300	7.9	34,100
West Central	44,000	8,900	77.8	692,500	27,900	8.0	223,700
Eddy	7,000	3,200	79.4	254,200	3,600	6.4	23,200
Foster	8,200	5,000	84.4	422,000	2,600	8.2	21,300
Kidder	14,500	4,200	109.3	459,100	9,300	6.5	60,900
Sheridan	4,500	1,700	78.5	133,500	2,500	8.2	20,600
Stutsman	22,000	12,500	71.8	897,600	8,500	9.1	77,400
Wells	14,800	11,300	78.0	881,400	2,900	7.9	23,000
Central	71,000	37,900	80.4	3,047,800	29,400	7.7	226,400
Barnes	19,000	14,200	85.0	1,207,500	4,700	6.1	28,700
Cass	68,000	62,400	99.4	6,204,000	4,100	7.2	29,700
Griggs	5,600	3,000	65.5	196,500	2,000	9.4	18,700
Steele	8,000	7,200	96.3	693,100	600	9.3	5,600
Traill	9,400	8,600	98.5	847,100	600	10.5	6,300
East Central	110,000	95,400	95.9	9,148,200	12,000	7.4	89,000
Adams	8,500	900	52.0	46,800	6,000	6.8	40,900
Billings	1,600	--	--	--	1,400	8.4	11,800
Bowman	3,800	1,200	73.8	88,600	2,300	8.5	19,600
Golden Valley	1,600	200	55.0	11,000	900	6.3	5,700
Hettinger	7,000	5,000	73.0	365,000	1,200	6.0	7,200
Slope	3,000	200	59.0	11,800	2,100	7.7	16,200
Stark	10,500	700	85.0	59,500	9,300	8.6	79,600
Southwest	36,000	8,200	71.1	582,700	23,200	7.8	181,000
Burleigh	14,500	4,300	74.4	319,800	7,000	8.1	56,400
Emmons	26,000	3,700	105.4	389,800	19,400	6.7	130,200
Grant	22,000	7,800	55.5	432,900	12,700	5.8	73,300
Morton	29,000	9,000	76.4	687,500	17,400	7.4	128,800
Sioux	5,500	900	71.4	64,300	2,600	5.5	14,300
South Central	97,000	25,700	73.7	1,894,300	59,100	6.8	403,000
Dickey	47,000	37,900	94.0	3,562,100	8,800	8.9	78,300
LaMoure	30,500	22,800	78.3	1,784,800	7,000	7.4	52,000
Logan	11,500	1,800	78.8	141,800	8,400	5.9	49,600
McIntosh	11,000	800	70.4	56,300	8,900	6.0	53,400
Ransom	48,500	41,600	98.1	4,079,000	6,600	7.3	48,100
Richland	143,000	132,300	105.6	13,972,000	10,500	9.0	94,500
Sargent	38,500	34,000	90.5	3,075,400	3,900	7.1	27,600
Southeast	330,000	271,200	98.3	26,671,400	54,100	7.5	403,500
STATE	770,000	500,000	93.0	46,500,000	230,000	7.5	1,725,000

HAY

North Dakota, 1988

District and County	Alfalfa Hay			All Other Hay			All Hay			
	Acres Harvested	Harv. Yield	Production	Acres Harvested	Harv. Yield	Production	Acres Harvested	Harv. Yield	Production	
									Quantity	Rank
	(Acres)	(Tons)	(Tons)	(Acres)	(Tons)	(Tons)	(Acres)	(Tons)	(Tons)	(No.)
Burke	8,500	.80	6,800	33,000	.90	29,700	41,500	.90	36,500	24
Divide	6,500	.60	3,900	25,000	.70	17,500	31,500	.70	21,400	44
Mountrail	21,000	.65	13,700	52,000	.65	33,600	73,000	.65	47,300	13
Renville	5,000	.55	2,800	10,500	.55	5,800	15,500	.55	8,600	51
Ward	25,000	.75	18,800	62,000	.70	43,100	87,000	.70	61,900	8
Williams	14,000	1.30	18,200	27,500	.60	16,500	41,500	.85	34,700	26
Northwest	80,000	.80	64,200	210,000	.70	146,200	290,000	.75	210,400	
Benson	8,500	.40	3,400	45,000	.80	36,000	53,500	.75	39,400	19
Bottineau	14,000	.95	13,300	29,000	.90	26,100	43,000	.90	39,400	19
McHenry	57,000	.75	42,700	107,000	.60	63,800	164,000	.65	106,500	1
Pierce	7,000	.45	3,200	33,000	.65	21,500	40,000	.60	24,700	37
Rolette	13,500	.95	12,800	26,000	.75	19,500	39,500	.80	32,300	31
North Central	100,000	.75	75,400	240,000	.70	166,900	340,000	.70	242,300	
Cavalier	3,500	1.10	3,900	10,000	1.10	11,000	13,500	1.10	14,900	49
Grand Forks	11,500	1.55	17,800	13,500	1.05	14,200	25,000	1.30	32,000	32
Nelson	12,500	1.35	16,900	21,000	1.15	24,200	33,500	1.25	41,100	17
Pembina	8,500	1.40	11,900	4,500	1.10	5,000	13,000	1.30	16,900	47
Ramsey	3,000	1.00	3,000	13,000	1.00	13,000	16,000	1.00	16,000	48
Towner	3,000	.70	2,100	17,000	1.05	17,900	20,000	1.00	20,000	45
Walsh	8,000	1.20	9,600	16,000	.90	14,400	24,000	1.00	24,000	39
Northeast	50,000	1.30	65,200	95,000	1.05	99,700	145,000	1.15	164,900	
Dunn	50,000	.80	40,000	55,000	.45	24,500	105,000	.60	64,500	7
McKenzie	17,000	1.65	28,100	51,000	.55	27,800	68,000	.80	55,900	10
McLean	14,000	.50	7,000	80,000	.75	59,600	94,000	.70	66,600	6
Mercer	25,000	.70	17,600	42,000	.65	27,200	67,000	.65	44,800	14
Oliver	14,000	.70	9,800	27,000	.55	14,900	41,000	.60	24,700	37
West Central	120,000	.85	102,500	255,000	.60	154,000	375,000	.70	256,500	
Eddy	20,000	.90	18,000	28,000	1.15	32,200	48,000	1.05	50,200	12
Foster	11,000	.90	9,900	16,000	.85	13,600	27,000	.85	23,500	41
Kidder	47,000	.60	28,300	72,000	.80	57,300	119,000	.70	85,600	3
Sheridan	8,000	.45	3,600	44,000	.70	30,800	52,000	.65	34,400	27
Stutsman	39,500	.70	27,700	56,000	.75	42,000	95,500	.75	69,700	5
Wells	9,500	.80	7,600	39,000	.75	29,300	48,500	.75	36,900	22
Central	135,000	.70	95,100	255,000	.80	205,200	390,000	.75	300,300	
Barnes	12,500	.90	11,300	24,500	1.00	24,600	37,000	.95	35,900	25
Cass	12,000	1.05	12,600	10,000	.90	9,000	22,000	1.00	21,600	43
Griggs	11,000	1.00	11,000	12,500	1.30	16,300	23,500	1.15	27,300	35
Steele	1,500	1.55	2,300	3,500	1.00	3,500	5,000	1.15	5,800	52
Traill	3,000	2.30	6,900	4,500	1.60	7,200	7,500	1.90	14,100	50
East Central	40,000	1.10	44,100	55,000	1.10	60,600	95,000	1.10	104,700	
Adams	33,000	.45	14,800	37,000	.60	22,100	70,000	.55	36,900	22
Billings	22,500	.45	10,100	30,000	.50	14,900	52,500	.50	25,000	36
Bowman	22,000	.55	12,100	19,500	.40	7,800	41,500	.50	19,900	46
Golden Valley	5,500	.40	2,200	4,500	.40	1,800	10,000	.40	4,000	53
Hettinger	28,000	.65	18,200	33,000	.75	24,600	61,000	.70	42,800	15
Slope	25,000	.45	11,300	21,000	.60	12,600	46,000	.50	23,900	40
Stark	49,000	.50	24,600	40,000	.45	17,800	89,000	.50	42,400	16
Southwest	185,000	.50	93,300	185,000	.55	101,600	370,000	.55	194,900	
Burleigh	39,000	.85	33,000	81,000	.70	57,000	120,000	.75	90,000	2
Emmons	24,000	.65	15,500	40,000	.55	22,000	64,000	.60	37,500	21
Grant	37,000	.70	25,800	62,000	.55	34,100	99,000	.60	59,900	9
Morton	42,000	.75	31,400	85,000	.50	42,800	127,000	.60	74,200	4
Sioux	28,000	.50	14,000	47,000	.40	18,800	75,000	.45	32,800	30
South Central	170,000	.70	119,700	315,000	.55	174,700	485,000	.60	294,400	
Dickey	20,000	.70	14,000	37,000	.55	20,400	57,000	.60	34,400	27
LaMoure	19,000	.75	14,300	25,000	1.05	26,300	44,000	.90	40,600	18
Logan	24,000	.50	12,000	46,000	.85	39,100	70,000	.75	51,100	11
McIntosh	18,000	.30	5,400	35,000	.75	26,300	53,000	.60	31,700	33
Ransom	17,000	.85	14,500	18,500	.70	13,000	35,500	.75	27,500	34
Richland	11,000	1.80	19,800	11,500	1.15	13,200	22,500	1.45	33,000	29
Sargent	11,000	.95	10,500	17,000	.75	12,800	28,000	.85	23,300	42
Southeast	120,000	.75	90,500	190,000	.80	151,100	310,000	.80	241,600	
STATE	1,000,000	.75	750,000	1,800,000	.70	1,260,000	2,800,000	.72	2,010,000	

HAY CONT.

North Dakota, 1987

District and County	Alfalfa Hay			All Other Hay			All Hay		
	Acres Harvested	Harv. Yield	Production	Acres Harvested	Harv. Yield	Production	Acres Harvested	Harv. Yield	Production
	(Acres)	(Tons)	(Tons)	(Acres)	(Tons)	(Tons)	(Acres)	(Tons)	(Tons)
Burke	8,000	1.45	11,600	23,000	1.35	31,000	31,000	1.35	42,600
Divide	11,000	1.75	19,300	17,000	1.45	24,600	28,000	1.55	43,900
Mountrail	25,000	2.10	52,400	41,000	1.35	55,200	66,000	1.65	107,600
Renville	4,000	1.40	5,600	9,000	1.40	12,600	13,000	1.40	18,200
Ward	23,000	2.10	48,200	38,000	1.35	51,300	61,000	1.65	99,500
Williams	29,000	2.00	57,900	17,000	1.20	20,400	46,000	1.70	78,300
Northwest	100,000	1.95	195,000	145,000	1.35	195,100	245,000	1.60	390,100
Benson	18,000	1.85	33,300	33,000	1.35	44,600	51,000	1.55	77,900
Bottineau	22,000	1.55	34,100	23,000	1.20	27,600	45,000	1.35	61,700
McHenry	78,000	1.50	117,000	105,000	1.05	109,900	183,000	1.25	226,900
Pierce	19,000	2.15	40,800	31,000	1.25	38,800	50,000	1.60	79,600
Rolette	23,000	2.00	46,000	28,000	1.50	42,000	51,000	1.75	88,000
North Central	160,000	1.70	271,200	220,000	1.20	262,900	380,000	1.40	534,100
Cavalier	4,000	2.30	9,200	7,000	1.80	12,600	11,000	2.00	21,800
Grand Forks	7,500	3.10	23,200	6,000	1.50	9,000	13,500	2.40	32,200
Nelson	7,500	2.75	20,600	11,000	1.55	17,000	18,500	2.05	37,600
Pembina	5,000	2.70	13,500	7,500	1.35	10,100	12,500	1.90	23,600
Ramsey	2,000	2.20	4,400	6,500	1.55	10,100	8,500	1.70	14,500
Towner	4,500	1.65	7,400	7,000	1.45	10,200	11,500	1.55	17,600
Walsh	4,500	2.05	9,200	10,000	1.60	16,000	14,500	1.75	25,200
Northeast	35,000	2.50	87,500	55,000	1.55	85,000	90,000	1.90	172,500
Dunn	112,000	1.80	201,700	60,000	1.40	83,700	172,000	1.65	285,400
McKenzie	44,000	1.35	59,400	40,000	1.05	42,000	84,000	1.20	101,400
McLean	23,000	1.85	42,600	40,000	1.45	57,800	63,000	1.60	100,400
Mercer	37,000	1.85	68,500	25,000	1.50	37,500	62,000	1.70	106,000
Oliver	29,000	1.95	56,600	20,000	1.45	29,000	49,000	1.75	85,600
West Central	245,000	1.75	428,800	185,000	1.35	250,000	430,000	1.60	678,800
Eddy	28,000	1.90	53,200	21,000	1.20	25,200	49,000	1.60	78,400
Foster	11,000	2.30	25,300	7,000	1.40	9,800	18,000	1.95	35,100
Kidder	105,000	1.75	183,800	60,000	1.15	69,000	165,000	1.55	252,800
Sheridan	12,000	1.60	19,200	45,000	1.30	58,500	57,000	1.35	77,700
Stutsman	43,000	2.40	103,200	35,000	1.45	50,700	78,000	1.95	153,900
Wells	11,000	2.25	24,800	32,000	1.15	36,800	43,000	1.45	61,600
Central	210,000	1.95	409,500	200,000	1.25	250,000	410,000	1.60	659,500
Barnes	14,500	2.40	34,800	20,000	1.50	30,000	34,500	1.90	64,800
Cass	12,500	3.25	40,600	6,000	1.10	6,600	18,500	2.55	47,200
Griggs	12,300	2.05	25,600	11,000	1.25	13,800	23,500	1.70	39,400
Steele	2,500	2.55	6,400	2,500	1.95	4,900	5,000	2.25	11,300
Traill	3,000	3.20	9,600	500	1.40	700	3,500	2.95	10,300
East Central	45,000	2.60	117,000	40,000	1.40	56,000	85,000	2.05	173,000
Adams	50,000	1.55	77,700	12,500	1.10	13,800	62,500	1.45	91,500
Billings	58,000	1.55	90,000	24,000	1.15	27,600	82,000	1.45	117,600
Bowman	46,000	1.50	69,000	16,500	1.25	20,600	62,500	1.45	89,600
Golden Valley	15,000	1.50	22,500	8,500	1.15	9,800	23,500	1.35	32,300
Hettinger	32,000	1.65	52,800	15,000	1.25	18,800	47,000	1.50	71,600
Slope	41,000	1.55	63,600	12,500	1.65	20,600	53,500	1.55	84,200
Stark	73,000	1.55	113,000	31,000	1.25	38,800	104,000	1.45	152,200
Southwest	315,000	1.55	489,000	120,000	1.25	150,000	435,000	1.45	639,000
Burleigh	59,000	2.25	132,500	50,000	1.25	62,500	109,000	1.80	195,000
Emmons	57,000	1.95	111,200	54,000	1.10	59,500	111,000	1.55	170,700
Grant	67,000	2.05	137,400	38,000	1.30	49,400	105,000	1.80	186,800
Morton	71,000	1.90	134,600	52,000	1.45	75,600	123,000	1.70	210,200
Sioux	51,000	1.25	63,800	21,000	1.00	21,000	72,000	1.20	84,800
South Central	305,000	1.90	579,500	215,000	1.25	268,000	520,000	1.65	847,500
Dickey	35,000	2.55	89,200	26,000	1.55	40,300	61,000	2.10	129,500
LaMoure	23,000	3.20	73,600	17,000	1.50	25,500	40,000	2.50	99,100
Logan	49,000	2.10	102,900	45,000	1.55	69,600	94,000	1.85	172,500
McIntosh	37,000	1.90	70,300	46,000	1.15	52,900	83,000	1.50	123,200
Ransom	15,000	3.05	45,800	11,500	1.50	17,300	26,500	2.40	63,100
Richland	13,000	3.35	43,600	12,500	1.20	15,000	25,500	2.30	58,600
Sargent	13,000	2.85	37,100	12,000	1.45	17,400	25,000	2.20	54,500
Southeast	185,000	2.50	462,500	170,000	1.40	238,000	355,000	1.95	700,500
STATE	1,600,000	1.90	3,040,000	1,350,000	1.30	1,755,000	2,950,000	1.63	4,795,000

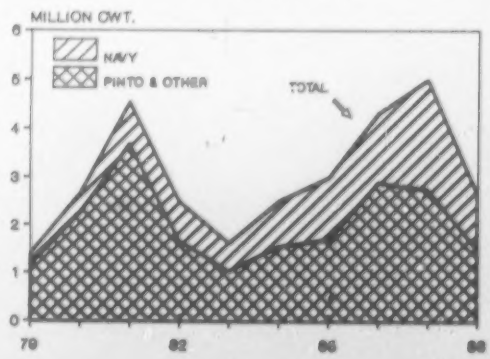
DRY BEANS

North Dakota, 1988 and 1987

District and County	1988 Acres Planted	1988 Acres Harvested	1988 Yield Per Harvested Acre	1988 Production Quantity	1988 Production Rank	1987 Acres Planted	1987 Acres Harvested	1987 Yield Per Harvested Acre	1987 Production
	(Acres)	(Acres)	(Lbs.)	(Cwt.)	(No.)	(Acres)	(Acres)	(Lbs.)	(Cwt.)
Burke	100	100	200	200	45	300	300	1400	4,200
Mountrail	500	400	300	1,200	31	--	--	--	--
Ward	300	200	240	480	40	100	100	1400	1,400
Williams	100	100	1000	1,000	34	400	400	1750	7,000
Benson	2,000	1,500	300	4,500	23	400	400	1800	7,200
Bottineau	1,000	900	440	3,960	25	300	300	1740	5,220
McHenry	500	400	400	1,600	29	--	--	--	--
Pierce	200	200	260	520	39	--	--	--	--
Rolette	300	200	310	620	36	--	--	--	--
Cavalier	5,000	4,500	540	24,300	13	1,200	1,200	1300	15,600
Grand Forks	80,000	77,000	1070	823,900	1	83,000	79,500	1350	1,073,400
Nelson	4,000	3,800	900	34,200	11	2,000	2,000	1120	22,400
Pembina	45,000	41,500	620	257,300	4	41,000	41,000	1310	537,100
Ramsey	6,000	5,500	560	30,800	12	4,300	4,300	1400	60,200
Towner	5,000	4,700	320	15,040	16	3,500	3,200	1350	43,200
Walsh	40,000	38,000	610	231,610	5	35,000	35,000	1310	458,500
Dunn	100	100	250	250	44	700	600	1120	6,720
McKenzie	700	600	2000	12,000	19	400	400	1790	7,160
McLean	9,000	7,200	290	20,890	15	4,000	4,000	1650	66,000
Mercer	200	200	170	340	43	400	400	1400	5,600
Oliver	1,000	900	180	1,620	28	--	--	--	--
Eddy	700	700	470	3,290	26	100	100	1300	1,300
Foster	2,000	1,800	590	10,620	20	--	--	--	--
Kidder	400	400	150	600	37	600	500	1600	8,000
Sheridan	700	600	180	1,080	33	--	--	--	--
Stutsman	2,200	2,000	200	4,000	24	800	800	1400	11,200
Wells	16,000	15,500	280	43,410	10	11,500	11,500	1340	154,100
Barnes	1,500	1,000	220	2,200	27	1,000	1,000	1570	15,700
Cass	25,000	22,500	590	132,700	6	40,000	39,000	1650	643,500
Griggs	15,000	14,000	640	89,600	7	18,000	17,000	1420	241,400
Steele	40,000	39,500	1020	402,800	2	32,000	31,000	1460	452,640
Traill	43,500	43,000	830	356,700	3	49,000	45,000	1350	607,480
Adams	500	300	130	390	42	800	800	1160	9,280
Bowman	800	600	110	660	35	500	500	1200	6,000
Golden Valley	100	--	--	--	-	--	--	--	--
Hettinger	8,500	5,700	160	9,120	21	7,500	7,500	1080	81,000
Slope	500	400	120	480	40	--	--	--	--
Stark	600	500	120	600	37	200	200	1000	2,000
Burleigh	800	700	160	1,120	32	500	500	1300	6,500
Emmons	1,000	800	200	1,600	29	--	--	--	--
Grant	4,200	3,000	180	5,400	22	2,500	2,500	1240	31,000
Dickey	5,500	2,200	600	13,200	17	500	500	1350	6,750
LaMoure	6,000	4,000	310	12,380	18	4,000	4,000	1520	60,800
Ransom	10,000	9,900	650	64,310	8	12,000	12,000	1600	192,000
Richland	6,000	5,900	950	56,030	9	6,500	6,500	1530	99,450
Sargent	7,500	7,000	320	22,380	14	5,000	5,000	1500	75,000
STATE	400,000	370,000	730	2,701,000		370,000	359,000	1400	5,026,000

DRY BEAN PRODUCTION,
by Commercial Classes, North Dakota,
1979-88

Year	Navy	Pinto	Other	Total
		- - - - 000 Cwt. - - - -		
1979	247	1,158	13	1,418
1980	404	2,248	26	2,678
1981	870	3,570	125	4,565
1982	840	1,596	84	2,520
1983	598	1,020	30	1,648
1984	960	1,500	60	2,520
1985	1,300	1,650	60	3,010
1986	1,435	2,820	85	4,340
1987	2,262	2,694	70	5,026
1988	1,188	1,432	81	2,701

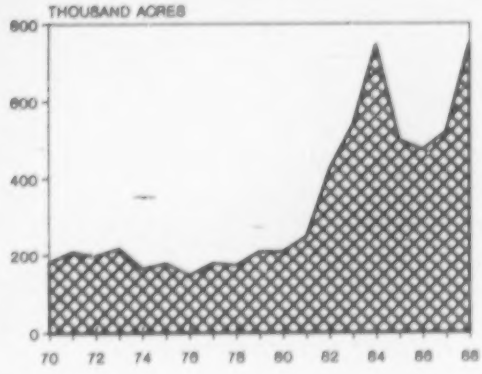


SOYBEANS, SUGARBEETS & POTATOES

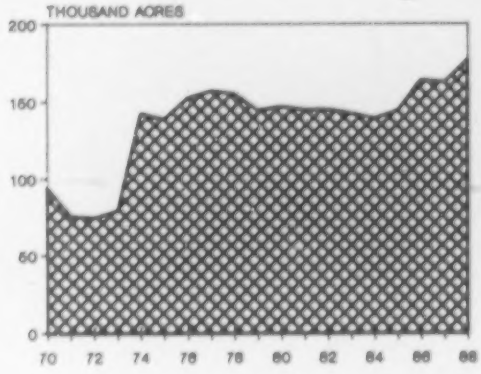
North Dakota, 1988 and 1987

District and County	1988 Acres Planted	1988 Acres Harvested	1988 Yield Per Harvested Acre	1988 Production Quantity	1988 Production Rank	1987 Acres Planted	1987 Acres Harvested	1987 Yield Per Harvested Acre	1987 Production
	(Acres)	(Acres)	(Bu.)	(Bu.)	(No.)	(Acres)	(Acres)	(Bu.)	(Bu.)
SOYBEANS									
Burke	500	500	5.0	2,500	30	---	---	---	---
Mountrail	200	200	5.0	1,000	33	---	---	---	---
Ward	300	300	8.0	2,400	31	---	---	---	---
Benson	1,500	1,000	7.5	7,500	23	---	---	---	---
Bottineau	1,100	900	9.0	8,100	21	---	---	---	---
Pierce	400	400	7.0	2,800	28	---	---	---	---
Rolette	200	200	8.0	1,600	32	---	---	---	---
Cavalier	1,000	600	12.0	7,200	25	---	---	---	---
Grand Forks	66,000	62,300	22.0	1,369,000	4	35,000	34,500	29.0	1,000,000
Nelson	6,000	5,700	17.5	99,800	11	2,000	2,000	25.5	51,000
Pembina	21,000	19,500	13.5	263,300	7	13,000	13,000	31.0	403,000
Ramsey	5,000	4,200	9.0	37,800	16	2,000	2,000	25.5	51,000
Towner	3,000	2,500	6.5	16,300	18	1,000	1,000	21.0	21,000
Walsh	8,000	7,200	13.0	93,600	12	2,000	2,000	27.5	55,000
Eddy	500	500	12.0	6,000	26	500	500	25.0	12,500
Foster	1,000	900	17.0	15,300	19	---	---	---	---
Kidder	500	500	30.0	15,000	20	---	---	---	---
Sheridan	1,000	800	5.0	4,000	27	200	200	27.5	5,500
Stutsman	6,000	5,700	9.0	51,300	15	1,100	1,000	29.5	29,500
Wells	5,000	4,600	7.0	32,200	17	6,700	6,300	25.5	160,500
Barnes	29,000	27,500	13.0	357,000	6	16,500	16,200	29.0	469,500
Cass	220,000	197,000	14.5	2,850,000	2	170,000	168,500	34.5	5,810,000
Griggs	9,000	8,500	16.0	136,000	10	3,500	3,000	27.0	81,000
Steele	29,000	27,000	22.0	594,000	5	15,000	14,800	30.5	451,000
Traill	73,000	70,000	26.5	1,853,000	3	45,000	44,500	33.0	1,468,500
Burleigh	700	500	15.0	7,500	22	---	---	---	---
Emmons	200	200	14.0	2,800	29	---	---	---	---
Morton	100	100	5.0	500	34	---	---	---	---
Sioux	500	400	18.0	7,200	24	---	---	---	---
Dickey	5,400	4,500	13.0	58,500	14	1,000	1,000	28.0	28,000
LaMoure	10,000	8,500	10.0	85,000	13	2,000	2,000	27.0	54,000
Logan	100	100	4.0	400	35	---	---	---	---
Ransom	12,500	11,400	15.0	171,000	9	7,000	6,800	31.0	211,000
Richland	210,000	197,000	20.5	4,043,000	1	180,000	179,500	33.0	5,925,000
Sargent	22,000	18,500	11.5	212,900	8	15,000	14,700	28.0	412,000
Other Counties	300	300	15.0	4,500		1,500	1,500	26.0	39,000
STATE	750,000	690,000	18.0	12,420,000		520,000	515,000	32.5	16,738,000
SUGARBEETS									
			(Tons)	(Tons)				(Tons)	(Tons)
Williams	4,000	4,000	20.8	83,200	8	4,000	4,000	21.2	84,800
Grand Forks	15,500	15,500	15.4	238,700	5	12,000	12,000	21.0	252,000
Pembina	42,900	42,400	14.3	606,100	1	37,500	37,500	19.6	736,700
Walsh	31,900	31,800	12.3	391,100	3	30,100	30,100	19.2	579,400
McKenzie	8,200	8,200	22.7	186,100	7	8,300	8,300	25.2	209,200
Cass	19,000	18,800	11.8	221,800	6	17,800	17,800	17.5	311,500
Traill	32,600	32,100	16.6	532,900	2	30,600	28,800	19.8	570,200
Richland	23,700	22,700	14.1	320,100	4	23,000	22,800	18.3	417,200
STATE	177,800	175,500	14.7	2,580,000		163,300	161,300	19.6	3,161,000
POTATOES									
			(Cwt.)	(Cwt.)				(Cwt.)	(Cwt.)
Grand Forks	26,000	25,300	150	3,795,000	2	29,800	28,500	190	5,416,000
Pembina	30,000	29,500	115	3,392,000	3	27,000	26,500	185	4,903,000
Towner	2,500	2,400	135	324,000	5	2,800	2,600	195	507,000
Walsh	65,000	61,500	90	5,540,000	1	62,500	61,000	180	10,983,000
Traill	3,500	3,400	155	527,000	4	3,900	2,900	170	493,000
Other Counties	3,000	2,900	275	797,000		4,000	3,500	235	823,000
STATE	130,000	125,000	115	14,375,000		130,000	125,000	185	23,125,000

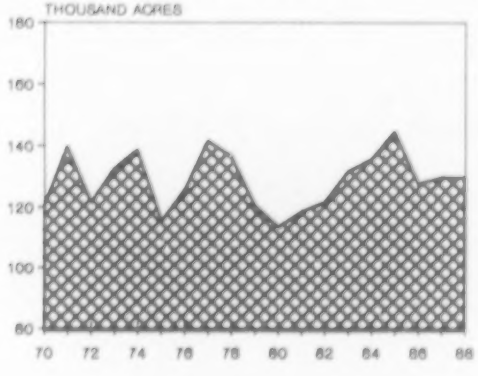
SOYBEAN PLANTED ACRES
NORTH DAKOTA, 1970 - 88



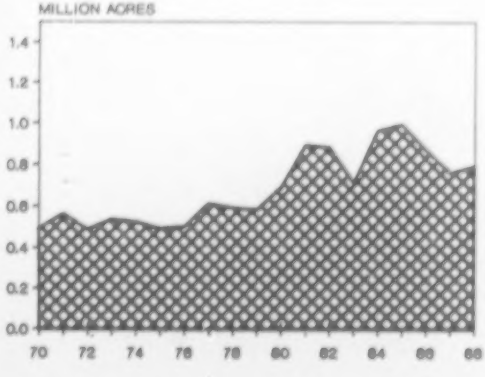
SUGARBEET PLANTED ACRES
NORTH DAKOTA, 1970 - 88



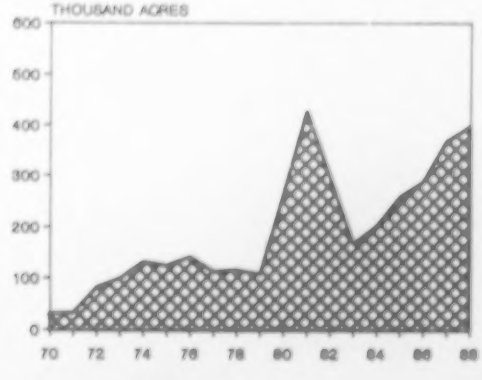
POTATO PLANTED ACRES
NORTH DAKOTA, 1970 - 88



CORN PLANTED ACRES
NORTH DAKOTA, 1970 - 88



DRY BEAN PLANTED ACRES
NORTH DAKOTA, 1970 - 88



IRRIGATION

ALL WHEAT, SPRING WHEAT OTHER THAN DURUM, DURUM WHEAT AND BARLEY:
North Dakota, 1988

District and County	Acres Planted	Acres Harvested	Yield Per Harvested Acre	Production	Acres Planted	Acres Harvested	Yield Per Harvested Acre	Production
	(Acres)	(Acres)	(Bu.)	(Bu.)	(Acres)	(Acres)	(Bu.)	(Bu.)
	ALL WHEAT				SPRING WHEAT OTHER THAN DURUM			
Divide	2,100	2,100	23.0	48,300	---	---	---	---
Ward	400	400	20.0	8,000	200	200	20.0	4,000
Williams	3,900	3,500	23.9	83,500	1,100	1,000	16.0	16,000
Benson	1,000	900	21.1	19,000	700	700	22.0	15,400
Bottineau	300	300	35.7	10,700	300	300	35.7	10,700
McHenry	400	400	22.0	8,800	400	400	22.0	8,800
Grand Forks	700	700	45.0	31,500	700	700	45.0	31,500
Walsh	100	100	50.0	5,000	100	100	50.0	5,000
McKenzie	6,100	5,900	25.9	153,100	6,000	5,800	26.1	151,400
McLean	1,400	1,300	20.5	26,600	1,000	900	21.6	19,400
Eddy	600	600	20.0	12,000	600	500	20.0	12,000
Foster	500	500	30.0	15,000	500	500	30.0	15,000
Kidder	1,000	700	16.7	11,700	900	600	17.5	10,500
Stutsman	500	400	18.0	7,200	500	400	18.0	7,200
Barnes	700	700	28.0	19,600	700	700	28.0	19,600
Cass	2,000	2,000	36.7	73,300	1,000	1,000	32.9	32,900
Griggs	500	500	28.0	14,000	---	---	---	---
Steele	200	200	40.0	8,000	200	200	40.0	8,000
Traill	100	100	40.0	4,000	100	100	40.0	4,000
Bowman	100	100	22.0	2,200	100	100	22.0	2,200
Burleigh	100	0			100	0		
Emmons	700	600	18.0	10,800	700	600	18.0	10,800
Sioux	400	300	16.0	4,800	400	300	16.0	4,800
Dickey	600	600	26.0	15,600	600	600	26.0	15,600
LaMoure	400	300	22.7	6,800	400	300	22.7	6,800
Ransom	300	300	30.0	9,000	300	300	30.0	9,000
Sargent	100	100	23.0	2,300	100	100	23.0	2,300
STATE	25,200	23,600	25.9	610,800	17,700	16,500	25.6	422,900
	DURUM WHEAT				BARLEY			
Divide	2,100	2,100	23.0	48,300	---	---	---	---
Ward	200	200	20.0	4,000	---	---	---	---
Williams	2,800	2,500	27.0	67,500	300	200	28.0	5,600
Benson	200	200	18.0	3,600	200	200	55.0	11,000
Bottineau	---	---	---	---	100	100	50.0	5,000
McHenry	---	---	---	---	200	200	40.0	8,000
Pierce	---	---	---	---	100	100	50.0	5,000
Rolette	---	---	---	---	100	100	55.0	5,500
Dunn	---	---	---	---	100	100	30.0	3,000
McKenzie	100	100	17.0	1,700	700	500	33.6	16,800
McLean	400	400	18.0	7,200	200	200	35.0	7,000
Mercer	---	---	---	---	100	100	32.0	3,200
Eddy	---	---	---	---	300	300	55.0	16,500
Foster	---	---	---	---	200	200	60.0	12,000
Kidder	100	100	12.0	1,200				
Stutsman	---	---	---	---	200	100	26.0	2,600
Cass	1,000	1,000	40.4	40,400	300	300	60.0	18,000
Griggs	500	500	28.0	14,000	500	500	57.2	28,600
Steele								
Bowman	---	---	---	---	100	100	35.0	3,500
Hettinger	---	---	---	---	200	200	35.0	7,000
Emmons	---	---	---	---	400	200	25.0	5,000
Grant	---	---	---	---	100	100	30.0	3,000
Morton	---	---	---	---	200	100	25.0	2,500
Dickey	---	---	---	---	400	400	53.3	21,300
Logan	---	---	---	---	300	300	55.0	16,500
STATE	7,500	7,100	26.5	187,900	5,300	4,600	44.9	206,600

IRRIGATION CONT.

ALL WHEAT, SPRING WHEAT OTHER THAN DURUM, DURUM WHEAT AND BARLEY
North Dakota, 1987

District and County	Acres Planted	Acres Harvested	Yield Per Harvested Acre	Production	Acres Planted	Acres Harvested	Yield Per Harvested Acre	Production
	(Acres)	(Acres)	(Bu.)	(Bu.)	(Acres)	(Acres)	(Bu.)	(Bu.)
	ALL WHEAT				SPRING WHEAT OTHER THAN DURUM			
Divide	1,500	1,500	55.0	82,500	---	---	---	---
Ward	300	300	45.0	13,500	300	300	45.0	13,500
Williams	3,800	3,800	55.3	210,200	2,000	2,000	59.0	118,000
Benson	1,300	1,300	34.9	45,400	900	900	32.0	28,800
Bottineau	200	200	40.0	8,000	200	200	40.0	8,000
McHenry	300	300	46.0	13,800	300	300	46.0	13,800
Grand Forks	600	600	45.0	27,000	600	600	45.0	27,000
Walsh	100	100	40.0	4,000	100	100	40.0	4,000
McKenzie	4,800	4,800	67.5	324,000	4,800	4,800	67.5	324,000
McLean	1,900	1,900	40.7	77,400	1,400	1,400	41.0	57,400
Mercer	100	100	35.0	3,500	100	100	35.0	3,500
Oliver	100	100	40.0	4,000	100	100	40.0	4,000
Eddy	500	500	35.0	17,500	500	500	35.0	17,500
Foster	800	800	35.0	28,000	800	800	35.0	28,000
Kidder	1,100	1,100	43.5	47,900	1,100	1,100	43.5	47,900
Stutsman	300	300	47.0	14,100	300	300	47.0	14,100
Barnes	500	500	40.0	20,000	500	500	40.0	20,000
Cass	1,700	1,700	43.5	74,000	1,700	1,700	43.5	74,000
Griggs	700	700	38.3	26,800	600	600	38.0	22,800
Steele	500	500	42.0	21,000	400	400	40.0	16,000
Traill	100	100	45.0	4,500	100	100	45.0	4,500
Burleigh	100	100	45.0	4,500	100	100	45.0	4,500
Emmons	1,000	1,000	55.0	55,000	1,000	1,000	55.0	55,000
Morton	100	100	40.0	4,000	100	100	40.0	4,000
Sioux	400	400	40.0	16,000	400	400	40.0	16,000
Dickey	700	700	58.1	40,700	300	300	65.0	19,500
LaMoure	500	500	50.0	25,000	200	200	50.0	10,000
Logan	400	400	60.0	24,000	400	400	60.0	24,000
Ransom	700	700	50.0	35,000	700	700	50.0	35,000
Sargent	100	100	50.0	5,000	100	100	50.0	5,000
STATE	25,200	25,200	50.6	1,276,300	20,100	20,100	50.7	1,019,800
	DURUM WHEAT				BARLEY			
Divide	1,500	1,500	55.0	82,500	---	---	---	---
Ward	---	---	---	---	200	200	55.0	11,000
Williams	1,800	1,800	51.2	92,200	300	300	60.0	18,000
Benson	400	400	41.5	16,600	200	200	70.0	14,000
Rolette	---	---	---	---	100	100	65.0	6,500
Grand Forks	---	---	---	---	100	100	65.0	6,500
McKenzie	---	---	---	---	700	700	82.7	57,900
McLean	500	500	40.0	20,000	300	300	90.0	27,000
Mercer	---	---	---	---	100	100	80.0	8,000
Oliver	---	---	---	---	100	100	80.0	8,000
Eddy	---	---	---	---	200	200	75.0	15,000
Kidder	---	---	---	---	200	200	65.0	13,000
Stutsman	---	---	---	---	100	100	75.0	7,500
Barnes	---	---	---	---	200	200	60.0	12,000
Cass	---	---	---	---	200	200	70.0	14,000
Griggs	100	100	40.0	4,000	500	500	65.0	32,500
Steele	100	100	50.0	5,000	---	---	---	---
Golden Valley	---	---	---	---	300	300	72.0	21,600
Burleigh	---	---	---	---	100	100	74.0	7,400
Emmons	---	---	---	---	500	500	70.0	35,000
Grant	---	---	---	---	200	200	65.0	13,000
Morton	---	---	---	---	300	300	68.0	20,400
Sioux	---	---	---	---	100	100	50.0	5,000
Dickey	400	400	53.0	21,200	300	300	80.0	24,000
LaMoure	300	300	50.0	15,000	100	100	75.0	7,500
Logan	---	---	---	---	300	300	65.3	19,600
Ransom	---	---	---	---	100	100	75.0	7,500
Sargent	---	---	---	---	100	100	80.0	8,000
STATE	5,100	5,100	50.3	256,500	5,900	5,900	71.2	419,900

IRRIGATION CONT.

CORN FOR GRAIN AND CORN FOR SILAGE
North Dakota, 1988 and 1987

County	1988			1987		
	Acres Harvested	Yield per Harvested Acre	Production 1/	Acres Harvested	Yield per Harvested Acre	Production 1/
	(Acres)	(Bu.)	(Bu.)	(Acres)	(Bu.)	(Bu.)
			CORN FOR GRAIN			
Ward	---	---	---	200	85.0	17,000
Williams	100	52.0	5,200	200	112.0	22,400
Benson	800	83.3	66,600	900	80.0	72,000
McHenry	700	102.0	71,400	700	87.0	60,900
Grand Forks	1,400	106.6	149,200	900	130.0	117,000
Nelson	100	75.0	7,500	---	---	---
Pembina	---	---	---	200	110.0	22,000
McKenzie	500	119.6	59,800	400	118.0	47,200
McLean	1,000	100.2	100,200	1,000	115.0	115,000
Mercer	200	101.0	20,200	800	85.0	68,000
Eddy	400	86.0	34,400	400	89.5	35,800
Foster	900	124.0	111,600	1,500	90.0	135,000
Kidder	3,000	94.0	281,900	3,100	128.5	398,400
Stutsman	1,000	124.0	124,000	1,300	96.0	124,800
Wells	400	88.0	35,200	---	---	---
Barnes	1,100	99.0	108,900	1,300	135.0	175,500
Cass	5,800	106.5	617,800	6,400	107.5	688,000
Griggs	1,300	74.0	96,200	500	93.0	46,500
Steele	1,200	78.0	93,600	1,200	134.8	161,800
Burleigh	300	68.7	20,600	800	128.5	102,800
Emmons	900	66.0	59,400	1,900	145.0	275,500
Grant	1,000	74.0	74,000	---	---	---
Morton	300	73.7	22,100	300	95.0	28,500
Sioux	100	59.0	5,900	500	89.0	44,500
Dickey	7,800	128.0	998,400	7,900	150.9	1,192,100
LaMoure	2,500	107.5	268,800	2,100	115.5	242,600
Logan	400	98.0	39,200	400	123.5	49,400
Ransom	12,100	120.0	1,452,000	12,600	135.0	1,701,000
Richland	1,400	101.0	141,400	1,100	118.5	130,400
Sargent	6,000	122.0	732,000	6,300	143.0	900,900
STATE	52,700	110.0	5,797,500	54,900	127.0	6,975,000
			CORN FOR SILAGE			
	(Acres)	(Ton)	(Ton)	(Acres)	(Ton)	(Ton)
Divide	100	6.0	600	100	12.0	1,200
Ward	200	14.5	2,900	---	---	---
Williams	400	17.0	6,800	400	13.5	5,400
Benson	300	10.7	3,200	---	---	---
McHenry	400	11.0	4,400	600	15.7	9,400
Pierce	100	10.0	1,000	---	---	---
Rolette	100	7.0	700	200	10.0	2,000
Nelson	100	12.0	1,200	300	13.7	4,100
Dunn	---	---	---	100	16.0	1,600
McKenzie	1,200	15.5	18,600	1,100	18.4	20,200
McLean	700	15.0	10,500	700	17.0	11,900
Mercer	900	18.0	16,200	300	14.0	4,200
Oliver	1,000	13.5	13,500	1,000	15.0	15,000
Eddy	100	12.0	1,200	200	10.5	2,100
Foster	800	14.5	11,600	200	10.5	2,100
Kidder	1,100	10.5	11,500	500	11.0	5,500
Stutsman	600	12.0	7,200	1,200	13.4	16,100
Wells	---	---	---	300	10.0	3,000
Barnes	200	12.5	2,500	---	---	---
Griggs	400	13.5	5,400	1,400	10.0	14,000
Traill	100	12.0	1,200	100	15.0	1,500
Golden Valley	200	11.5	2,300	200	11.0	2,200
Hettinger	200	11.5	2,300	---	---	---
Stark	---	---	---	100	14.0	1,400
Burleigh	1,800	12.5	22,500	500	14.0	7,000
Emmons	2,400	9.5	22,700	1,000	12.0	12,000
Grant	400	8.5	3,400	700	8.7	6,100
Morton	2,300	9.5	21,900	2,000	10.5	21,000
Sioux	200	8.5	1,700	---	---	---
Dickey	200	8.5	1,700	---	---	---
LaMoure	500	9.4	4,700	200	15.0	3,000
Logan	100	10.0	1,000	---	---	---
Ransom	300	12.0	3,600	200	10.0	2,000
Sargent	---	---	---	100	10.0	1,000
STATE	17,400	12.0	208,000	13,700	12.8	175,000

FARM MARKETINGS

ESTIMATED PERCENT OF CROP YEAR TOTAL SOLD IN OPEN MARKET BY MONTHS
North Dakota, 1983-87

Year	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June
						Percent						
ALL WHEAT												
1983	7	21	13	7	8	7	6	6	7	6	4	8
1984	5	22	11	9	10	5	5	7	6	6	6	8
1985	5	8	12	11	8	9	9	5	8	8	7	10
1986	9	8	12	11	6	10	6	8	6	6	7	11
1987	9	12	9	8	8	9	5	5	7	5	11	12
BARLEY												
1983	7	22	10	9	9	6	6	6	7	5	5	8
1984	8	28	8	6	6	5	6	5	6	6	6	10
1985	8	16	9	6	5	7	9	6	6	6	8	14
1986	6	16	12	7	7	8	6	11	8	6	5	8
1987	8	8	5	5	7	9	7	8	12	6	7	18
OATS												
1983	5	22	12	10	9	8	8	5	5	5	4	7
1984	9	22	12	7	8	9	6	5	6	6	4	6
1985	9	13	11	8	5	7	16	8	7	5	4	7
1986	6	10	8	5	7	10	12	9	4	6	11	12
1987	6	16	15	8	13	10	7	5	7	3	5	5
FLAXSEED												
1983	4	12	40	16	6	1	5	3	1	3	2	3
1984	2	14	25	12	10	5	13	4	4	3	6	2
1985	1	1	9	35	11	1	6	5	7	6	2	14
1986	2	1	9	45	14	8	3	2	2	2	2	9
1987	8	6	27	24	4	4	5	5	7	6	2	2
RYE												
1983	8	44	9	2	3	1	9	3	1	5	6	10
1984	10	18	4	3	1	6	10	10	13	1	15	9
1985	14	7	20	3	2	5	16	1	9	5	12	6
1986	7	8	18	6	1	4	9	7	6	10	19	8
1987	8	7	4	4	3	2	7	4	6	20	10	25

Year	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July
POTATOES												
1983	1	8	10	10	12	12	13	15	16	3	--	--
1984	--	8	11	11	11	12	12	16	12	6	1	--
1985	--	8	8	12	12	12	12	13	15	7	1	--
1986	--	11	10	9	10	11	13	14	15	6	1	--
1987	--	10	11	12	14	11	10	12	14	6	--	--

Year	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.
SUNFLOWER												
1983	5	40	20	10	6	3	4	3	2	2	1	1
1984	--	14	39	9	6	3	5	8	6	7	2	1
1985	--	4	14	12	15	7	6	9	10	13	8	2
1986	3	13	18	12	6	6	6	6	8	11	9	2
1987	5	21	11	11	8	8	11	5	5	4	3	8
SOYBEANS												
1983	10	21	26	10	3	5	5	7	5	5	2	1
1984	4	23	11	7	14	5	6	5	7	6	9	3
1985	5	14	18	20	6	6	7	4	6	3	6	5
1986	1	13	12	8	15	11	8	5	5	9	10	3
1987	21	29	16	9	7	5	3	2	4	2	1	1
DRY BEANS												
1983	19	10	10	4	4	7	7	6	11	8	3	11
1984	32	9	9	11	10	4	6	7	3	6	2	1
1985	14	19	10	9	16	3	5	9	4	5	4	2
1986	20	29	9	8	7	5	5	2	5	3	2	5
1987	14	12	8	10	15	10	9	7	5	5	2	3

Year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
CORN												
1983	14	28	6	11	6	11	6	3	5	5	2	3
1984	18	19	8	4	5	9	7	3	6	17	2	2
1985	9	34	21	12	7	2	3	3	3	3	1	2
1986	11	7	4	6	14	11	7	13	6	7	4	10
1987	16	10	12	14	8	6	3	5	9	8	4	5

Year	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	April	May
ALL HAY												
1983	1	4	8	7	7	13	9	15	6	14	12	4
1984	1	3	2	9	10	19	12	14	11	9	6	4
1985	3	15	7	8	10	16	9	9	7	9	6	1
1986	4	14	8	9	11	16	9	8	6	9	4	2
1987	4	5	4	12	16	12	4	8	5	8	10	12

-NOTES-

LIVESTOCK

NORTH DAKOTA LIVESTOCK

CATTLE

All cattle and calves totaled 1.6 million head on January 1, 1989, down 11 percent from January 1988 and 16 percent less than the 1987 total. This is the fifth consecutive yearly decline after the inventory reached 2.1 million head in 1984. Heifers for beef cow and milk cow replacement decreased 9 and 19 percent respectively. Beef cow numbers fell 5 percent while the number of dairy cows was down 8 percent. The 1988 calf crop of 950,000 head was down 1 percent. There were 15,600 cattle operations during 1988, 400 fewer than 1987.

Value of cattle and calves on hand January 1 was estimated at $1,040.0 million, down 3 percent from 1988. Value per head rose to $650 from $595 in 1988.

HOGS

The December 1, 1988 hog and pig inventory totaled 340,000, up 5 percent from 1987. Hog inventories over the past 10 years have fluctuated from a high of 370,000 in 1979 to a low of 210,000 in 1982. Breeding hogs declined 9 percent while the number of market hogs increased 7 percent. Number of farms with hogs in 1988 was 2,600, unchanged from 1987.

The average value per head on December 1, 1988, at $66.50, was down 15 percent from 1987. Total value of hogs and pigs was $22.6 million, down 11 percent.

SHEEP

A total of 164,000 sheep and lambs were on farms January 1, 1989, down 3 percent from the previous year. Stock sheep and lamb numbers advanced 1 percent to 143,000 head. Wool production during 1988 rose 1 percent from 1987. The number of sheep shorn remained unchanged but the average weight per fleece of 9.6 pounds was above the 9.5 in 1987. The value of wool production increased 49 percent to total $1.7 million.

DAIRY & POULTRY

Milk production for 1988 was 1,062 million pounds, down 2 percent from 1987. Average milk per cow was 11,543 lbs., down 1 percent from 11,688 in 1987. An average 92,000 cows were on farms during 1988, down 1,000 head from the 1987 average.

Farm value of milk produced in 1988 was $115.8 million, down from $120.7 million in 1987. The average price was $10.90 per hundredweight, down 20 cents from 1987.

Chicken inventory on December 1, 1988 totaled 255,000, down 19 percent from the previous year. The number of laying age was up 2 percent from December 1987. Total value of chickens on December 1, 1988, at $561,000, was down 19 percent from 1987. Egg production advanced to 59 million, up from 58 million eggs in 1987.

NUMBER OF LIVESTOCK FARMS BY SPECIE AND NUMBER OF ALL FARMS, North Dakota, 1979-88

Year	All Cattle	Beef Cows	Milk Cows	Hogs	All Sheep	All Farms
	- - - Thousand - - -					
1979	22.0		4.8	4.5	1.8	40.5
1980	21.0		4.2	4.0	2.1	40.0
1981	20.0		4.2	3.6	2.1	38.5
1982	19.2		4.0	2.8	2.2	37.0
1983	19.0		3.9	2.8	2.0	36.5
1984	18.5		3.7	3.0	2.1	35.5
1985	17.8		3.5	3.0	2.0	34.0
1986	17.2	15.0	3.0	3.0	1.8	33.0
1987	16.0	13.7	2.5	2.6	1.9	32.5
1988	15.6	13.4	2.4	2.6	1.8	32.5

COMMERCIAL LIVESTOCK SLAUGHTER North Dakota, 1984-88

Year	Number	Average Liveweight Per Head	Total Liveweight	Red Meat Production
	(000 Hd.)	(Lbs.)	(000 Lbs.)	(000 Lbs.)
		CATTLE		
1984	182.3	1,065	194,125	NA
1985	161.4	1,088	175,479	NA
1986	146.7	1,089	159,812	NA
1987	81.6	1,107	90,296	NA
1988	162.0	1,167	189,113	NA
		HOGS		
1984	78.4	214	16,806	NA
1985	85.0	215	18,303	NA
1986	81.0	218	17,626	NA
1987	71.7	219	15,696	NA
1988	81.0	215	17,443	
		ALL SPECIES		
1984	262.1	NA	211,191	112,679
1985	247.6	NA	194,004	104,268
1986	228.9	NA	177,676	94,731
1987	154.4	NA	106,190	58,193
1988	244.2	NA	206,781	107,725

NA - Not Available

LIVESTOCK INVENTORY January 1, North Dakota, 1980-89

Year	All Cattle	All Hogs 1/	All Sheep	All Chickens 1/
	- - - (Thousand Head) - - -			
1980	2,000	370	236	520
1981	1,850	265	272	460
1982	2,000	280	280	500
1983	2,050	210	222	510
1984	2,100	260	219	625
1985	2,050	255	215	635
1986	2,000	285	180	540
1987	1,900	275	185	.290
1988	1,800	325	169	315
1989	1,600	340	164	255

1/ Relates to December 1 previous year.

LIVESTOCK VALUES: January 1, North Dakota, 1985-89

Species	Value Per Head					Total Value				
	1985	1986	1987	1988	1989	1985	1986	1987	1988	1989
	- - - - - Dollars - - - - -					- - - - - Thousand Dollars - - - - -				
All Cattle	415.00	395.00	420.00	595.00	650.00	850,750	790,000	798,000	1,071,000	1,040,000
All Hogs 1/	75.50	68.50	88.50	78.00	66.50	19,253	19,523	24,338	25,350	22,610
All Sheep	55.00	66.00	79.50	94.50	89.50	11,825	11,880	14,708	15,971	14,678
All Chickens 1/	2.10	2.00	2.10	2.20	2.20	1,334	1,080	609	693	561

1/ Relates to December 1 previous year.

CATTLE

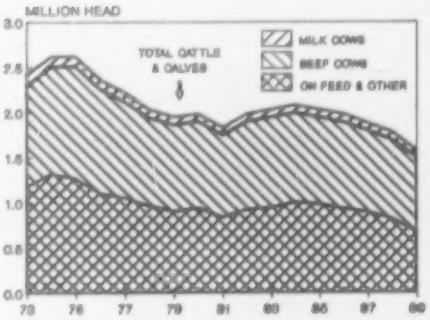
INVENTORY NUMBERS
North Dakota, Specified Dates, 1985-89

Class	January 1				
	1985	1986	1987	1988	1989
	- - - - - - Thousand Head - - - - - -				
ALL CATTLE	2,050	2,000	1,900	1,800	1,600
Cows & Heifers that have calved	1,061	1,060	1,000	970	920
Beef	964	958	908	874	832
Milk	97	102	92	96	88
Heifers over 500 lbs.	297	310	302	313	248
Beef Replacement	148	134	139	143	130
Milk Replacement	29	36	33	26	21
Other	120	140	130	144	97
Steers over 500 lbs.	195	210	195	216	157
Bulls over 500 lbs.	49	50	46	46	45
Steers, Heifers & Bulls under 500 lbs.	448	370	357	255	230

PRODUCTION, DISPOSITION & INCOME
North Dakota, 1985-88

Item	Unit	1985	1986	1987	1988
Number on Hand Beginning of Yr.	000 Head	2,050	2,000	1,900	1,800
Calves Born	000 Head	1,040	1,000	960	950
Inshipments	000 Head	85	60	65	90
Marketings:					
Cattle	000 Head	702	709	647	657
Calves	000 Head	380	360	400	515
Total	000 Head	1,082	1,069	1,047	1,172
Farm Slaughter	000 Head	8	6	5	5
Deaths:					
Cattle	000 Head	20	20	18	18
Calves	000 Head	65	65	55	45
Total	000 Head	85	85	73	63
Number on Hand End of Year	000 Head	2,000	1,900	1,800	1,600
Production	000 Lbs.	832,820	752,450	748,790	631,290
Marketings	000 Lbs.	873,030	866,480	814,350	856,540
Price/100 Lbs.:					
Cattle	Dollars	53.30	51.30	64.10	71.00
Calves	Dollars	64.10	63.50	81.60	91.90
All Classes	Dollars	54.89	53.02	67.01	76.02
Cash Receipts	000 Dols.	479,238	459,389	545,729	651,113
Value of Home Consumption	000 Dols.	7,874	6,713	7,775	7,906
Gross Income	000 Dols.	487,112	466,102	553,504	659,019

CATTLE & CALVES ON FARMS
NORTH DAKOTA, JANUARY 1, 1979 - 89



HISTORIC INVENTORY NUMBERS
North Dakota, January 1, 1980-89

Year	Cows That Have Calved		On Feed	Other	Total Cattle & Calves
	Beef	Dairy			
	- - - - - Thousand Head - - - - -				
1980	962	93	39	906	2,000
1981	910	93	37	810	1,850
1982	978	92	36	894	2,000
1983	1,005	95	39	911	2,050
1984	993	99	35	973	2,100
1985	964	97	38	951	2,050
1986	958	102	42	898	2,000
1987	908	92	38	862	1,900
1988	874	96	45	785	1,800
1989	832	88	40	640	1,600

GRAZING RATES 1/
North Dakota, 1980-88

Year	Survey Average Rates	
	Animal Unit	Cow-Calf
	- - - Dollars - - -	
1980	6.35	7.24
1981	8.69	9.52
1982	8.34	9.92
1983	7.90	9.25
1984	8.23	9.62
1985	6.97	8.88
1986	7.63	9.14
1987	7.41	8.86
1988	7.67	9.11

1/ Privately owned non-irrigated land from June Acreage and Livestock Survey, published in December prices.

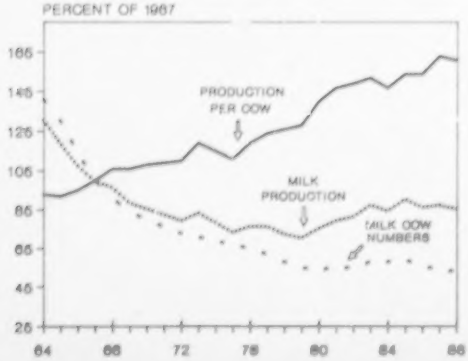
DAIRY

MILK: Production, Disposition & Income, North Dakota, 1987-88

Item	Unit	1987	1988
Average Number of Milk Cows on Farms	000 Head	93	92
Production of Milk and Milkfat			
a) Per Cow, Milk	Pounds	11,688	11,543
b) Per Cow, Milkfat	Pounds	417	421
c) Percent of fat in Milk	Percent	3.57	3.65
d) Total:			
Milk	Mil. Lbs.	1,087	1,062
Milkfat	Mil. Lbs.	38.8	38.8
Milk Used on Farms Where Produced			
a) Fed to Calves	Mil. Lbs.	32	36
b) Used for milk cream & butter	Mil. Lbs.	5	5
c) Total	Mil. Lbs.	37	41
Milk Marketed by Farmers			
Sold to plants & dealers as whole milk 1/	Mil. Lbs.	1,050	1,021
Percent fluid grade	Percent	49	51
Combined Marketing of Milk and Cream			
a) Milk utilized	Mil. Lbs.	1,050	1,021
b) Average returns			
1. Per 100 lbs. of milk	Dollars	11.10	10.90
2. Per lb. of milkfat	Dollars	3.11	2.99
c) Cash Receipts from marketing	000 Dols.	116,550	111,289
Used for Milk, Cream and Butter on Farms Where Produced			
a) Milk utilized	Mil. Lbs.	5	5
b) Value	000 Dols.	555	545
Gross Producer Income 2/	000 Dols.	117,105	111,834
Farm Value of Milk Produced	000 Dols.	120,657	115,758

1/ Includes small amount of farm skimmed cream and milk and cream retailed directly to consumer by producers.
2/ Cash receipts plus value of milk used for home consumption.

MILK PRODUCTION INDEXES
NORTH DAKOTA, 1964 - 88 (1967 = 100)



MILK PRODUCTION
North Dakota, 1987 and 1988

Month	No. of Milk Cows		Production per Cow		Total Milk Produced	
	1987	1988	1987	1988	1987	1988
	(000 Hd.)		(Lbs.)		(Mil. Lbs.)	
Jan-Mar	91	94	2,800	2,900	255	273
Apr-June	93	91	3,230	3,100	300	282
July-Sept	92	91	3,020	2,870	278	261
Oct-Dec	94	90	2,700	2,730	254	246
ANNUAL 1/	93	92	11,688	11,543	1,087	1,062

1/ Average number on farms during year.

MONTHLY AMERICAN CHEESE & BUTTER PRODUCTION
North Dakota, 1987-88

Month	American Cheese		Butter	
	1987	1988	1987	1988
	- - Thousand Pounds - -			
Jan.	3,449	3,396	477	453
Feb.	3,172	3,357	411	556
Mar.	3,905	3,732	479	622
Apr.	3,894	3,919	428	578
May	4,553	4,228	457	434
June	4,451	3,926	428	358
July	4,207	3,598	344	335
Aug.	3,776	3,311	264	293
Sept.	3,352	2,972	401	380
Oct.	3,309	3,019	491	361
Nov.	3,276	2,949	456	269
Dec.	3,604	3,347	564	358
Total	44,948	41,754	5,200	4,997

Source: See table below.

MANUFACTURED DAIRY PRODUCTS PRODUCTION
North Dakota, 1987-88

Item	1987	1988
	- 000 Lbs. -	
Butter	5,200	4,997
American Cheese	44,948	41,754
Cottage Cheese		
Creamed	2,011	1,855
Lowfat	3,716	3,931
Curd	3,389	3,405
Non-Fat Dry Milk		
Human Food	3,958	2,376
Dry Buttermilk	173	144
	- 000 Gals. -	
Ice Cream	2,048	2,018
Ice Milk	995	879
Milk Sherbet	194	197
Ice Cream Mix	894	835
Ice Milk Mix	621	634
Milk Sherbet Mix	125	80

Source: N.D. State Dairy Commissioner and N.D. Agricultural Statistics Service cooperating.

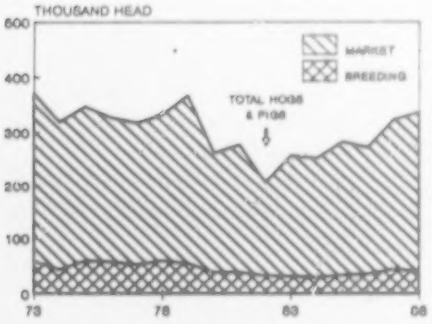
HOGS & PIGS

INVENTORY NUMBERS AND PIG CROP
North Dakota, December 1, 1984-88

CLASS	1984	1985	1986	1987	1988
			- - - - - - - Thousand Head - - - - - - -		
ALL HOGS & PIGS	255	285	275	325	340
Kept for Breeding	31	35	37	46	42
Market	224	250	238	279	298
Market Hogs & Pigs					
Under 60 Lbs.	85	86	86	108	107
60-119 Lbs.	68	71	63	66	75
120-179 Lbs.	40	53	47	57	62
180 Lbs. & Over	31	40	42	48	54
SOWS FARROWING					
December 1/ - February	---	---	---	15	17
March - May	---	---	---	20	19
December 1/ - May	27	30	33	35	36
June - August	---	---	---	21	23
September - November	---	---	---	16	16
June - November	26	29	30	37	39
PIG CROP					
December 1/ - February	---	---	---	---	129
March - May	---	---	---	---	144
December 1/ - May	216	234	261	277	273
June - August	---	---	---	---	170
September - November	---	---	---	---	122
June - November	198	223	231	292	292
			- - - - - - - Number - - - - - - -		
PIGS PER LITTER					
December 1/ - February	---	---	---	---	7.6
March - May	---	---	---	---	7.6
December 1/ - May	8.0	7.8	7.9	7.9	7.6
June - August	---	---	---	---	7.4
September - November	---	---	---	---	7.6
June - November	7.6	7.7	7.7	7.9	7.5

1/ December preceding year.

HOGS AND PIGS ON FARMS
NORTH DAKOTA, DECEMBER 1, 1973 - 88



HISTORIC INVENTORY
North Dakota, December 1, 1979-88

Year	Breeding	Market	Total
	- - - Thousand Head - - -		
1979	56	314	370
1980	40	225	265
1981	40	240	280
1982	34	176	210
1983	33	227	260
1984	31	224	255
1985	35	250	285
1986	37	238	275
1987	46	279	325
1988	42	298	340

PRODUCTION, DISPOSITION & INCOME
North Dakota, 1985-88

Item	Unit	1985	1986	1987	1988
Number on Hand Beginning of Yr. 1/	000 Head	255	285	275	325
Pig Crop	000 Head	457	492	569	565
Inshipments	000 Head	19	15	26	24
Marketings	000 Head	421	494	520	538
Farm Slaughter	000 Head	5	4	4	5
Deaths	000 Head	20	19	21	31
Number on Hand End of Yr.	000 Head	285	275	325	340
Production	000 Lbs.	87,015	98,372	111,372	108,679
Marketings	000 Lbs.	80,790	98,007	104,820	106,265
Price/100 Lbs.	Dollars	41.70	47.60	49.00	39.40
Cash Receipts	000 Dols.	34,475	47,604	52,622	43,000
Value of Home Consumption	000 Dols.	897	830	960	847
Gross Income	000 Dols.	35,372	48,434	53,582	43,847

1/ December 1 preceding year.

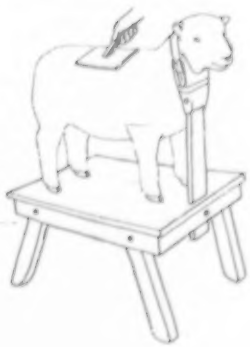
SHEEP

INVENTORY NUMBERS
North Dakota, January 1, 1985-89

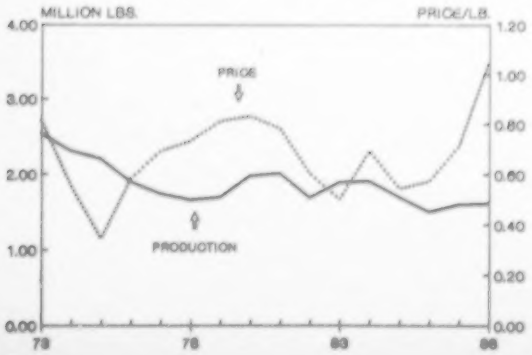
Class	1985	1986	1987	1988	1989
	- - Thousand Head - -				
All Sheep & Lambs	215	180	185	169	164
Number on Feed	50	40	25	27	21
Total Stock Sheep	165	140	160	142	143
Ewes 1 year plus	140	120	120	114	111
Ewe Lambs	15	13	29	20	22
Wether & Ram Lambs	5	3	7	3	5
Rams & Wether 1 year 1 year plus	5	4	4	5	5

HISTORIC INVENTORY
North Dakota, January 1, 1980-89

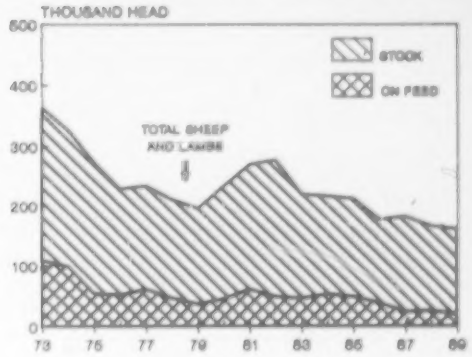
Year	On Feed	Stock Sheep	Total
	--- 000 Head ---		
1980	46	190	236
1981	62	210	272
1982	50	230	280
1983	47	175	222
1984	54	165	219
1985	50	165	215
1986	40	140	180
1987	25	160	185
1988	27	142	169
1989	21	143	164



WOOL PRODUCTION AND PRICE
NORTH DAKOTA, 1973 - 88



SHEEP AND LAMBS ON FARMS
NORTH DAKOTA, JANUARY 1, 1973 - 89



PRODUCTION, DISPOSITION & INCOME
North Dakota, 1985-88

Item	Unit	1985	1986	1987	1988
		SHEEP & LAMBS			
Number on Hand Beginning of Yr.	000 Head	215	180	185	169
Lambs Saved	000 Head	160	165	150	141
Inshipments	000 Head	18	19	22	15
Marketings:					
Sheep	000 Head	38	18	37	25
Lambs	000 Head	146	135	125	114
Total	000 Head	184	153	162	139
Farm Slaughter	000 Head	1	1	1	1
Deaths:					
Sheep	000 Head	10	7	10	7
Lambs	000 Head	18	18	15	14
Total	000 Head	28	25	25	21
Number on Hand End of Year	000 Head	180	185	169	164
Production	000 Lbs.	14,284	15,660	13,746	12,717
Marketings	000 Lbs.	19,975	16,320	16,960	14,235
Price/100 Lbs.:					
Sheep	Dollars	18.80	21.80	24.80	21.30
Lambs	Dollars	65.30	67.80	78.20	67.80
All Classes	Dollars	54.24	60.89	61.89	56.37
Cash Receipts	000 Dols.	10,835	10,030	10,497	8,024
Value of Home Consumption	000 Dols.	144	149	172	149
Gross Income	000 Dols.	10,979	10,179	10,669	8,173
		WOOL			
Sheep Shorn	000 Head	185	157	169	169
Production	000 Lbs.	1,704	1,509	1,605	1,620
Fleece Weight	Pounds	9.2	9.6	9.5	9.6
Price/Lb.	Dollars	.55	.58	.72	1.06
Value of Production	000 Dols.	937	875	1,156	1,717

POULTRY & HONEY

CHICKEN INVENTORY
North Dakota, December 1, 1984-88

Class	1984	1985	1986	1987	1988
	- - Thousand Head - -				
ALL CHICKENS	635	540	290	315	255
Laying Age	500	440	230	235	240
Hens	215	275	128	95	132
Pullets	285	165	102	140	108
Other	135	100	60	80	15

EGG PRODUCTION
North Dakota, 1984-88

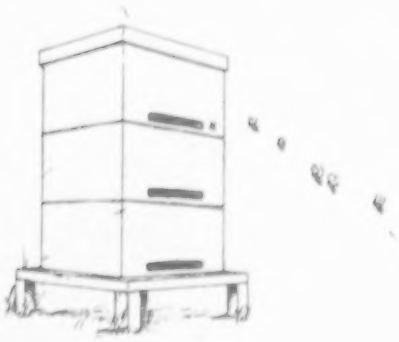
Quarter	Average Number of Layers				
	1984	1985	1986	1987	1988
	(000 Layers)				
Dec.*-Feb.	537	500	325	235	248
Mar.-May	487	495	228	245	255
June-Aug.	492	473	240	255	243
Sept.-Nov.	500	448	233	248	238
Annual	504	479	256	246	246
	Eggs Produced (Mil. Eggs)				
Dec.*-Feb.	32	31	19	14	16
Mar.-May	29	31	14	14	16
June-Aug.	29	29	14	15	14
Sept.-Nov.	30	27	14	15	13
Annual	120	118	61	58	59

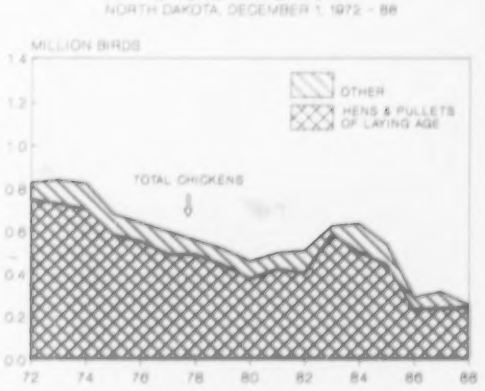
*December preceding year.

POULTRY: Production, Disposition & Income
North Dakota, 1985-88

Item	Unit	1985	1986	1987	1988
CHICKENS					
Lost	000 Birds	150	80	120	120
Sold, Birds	000 Birds	400	400	250	200
Pounds	000 Lbs.	1,600	1,600	1,000	800
Price/Lb.	Cents	10.0	9.0	6.0	8.0
Gross Income	000 Dols.	160	144	60	64
EGGS					
Number of Layers During Year	000 Birds	479	256	246	246
Eggs per Layer	Number	246	238	236	240
Eggs Produced	Mil. Eggs	118	61	58	59
Price/Dozen	Cents	42.0	46.0	40.0	35.0
Value of Production	000 Dols.	4,130	2,338	1,933	1,721
TURKEYS					
Number Raised 1/	000 Head	900	1,000	1,240	1,200
Production	000 Lbs.	19,260	19,900	28,892	27,120
Price/Lb.	Cents	47.0	48.0	30.0	40.0
Value of Production	000 Dols.	9,052	9,552	8,668	10,848

1/ Based on turkeys hatched September 1 to August 31. Excludes young turkeys lost.





HONEY
North Dakota, 1979-88*

Year	Number of Colonies	Yield Per Colony	Production	Average Price Per Pound	Value of Production	Stocks on Hand
	(Number)	(Lbs.)	(Lbs.)	(Dols.)	(Dols.)	(Lbs.)
1979	190,000	120	22,800,000	.519	11,833,000	3,648,000
1980	220,000	65	14,300,000	.528	7,550,000	2,145,000
1981	265,000	87	23,055,000	.550	12,680,000	5,994,000
1986	290,000	107	31,030,000	.450	13,964,000	1,862,000
1987	290,000	110	31,900,000	.450	14,335,000	3,509,000
1988	230,000	66	15,180,000	.470	7,135,000	1,518,000

*1982-85 Survey not conducted. 1/ Does not include stocks under loan.

ALL CATTLE

Inventory, North Dakota, January 1

District and County	5-Year Average 1984-88 1/	1987	1988	1989	
				Head	Rank
	- - - - Number of Head - - - -				
Burke	12,800	12,000	11,000	9,500	46
Divide	13,600	13,000	13,000	11,000	45
Mountrail	34,800	35,000	32,000	28,500	21
Renville	8,200	8,000	7,000	6,000	50
Ward	39,000	39,000	37,000	33,000	16
Williams	28,000	28,000	25,000	22,000	36
Northwest	136,400	135,000	125,000	110,000	
Benson	31,000	28,000	29,000	28,000	22
Bottineau	18,600	17,000	17,000	16,000	40
McHenry	72,600	71,000	67,000	61,000	3
Pierce	26,800	25,000	25,000	24,000	29
Rolette	23,000	22,000	22,000	21,000	37
North Central	172,000	163,000	160,000	150,000	
Cavalier	8,800	8,000	8,000	7,000	48
Grand Forks	14,800	14,000	11,000	11,500	43
Nelson	16,200	16,000	13,000	11,500	43
Pembina	10,200	10,000	10,000	9,000	47
Ramsey	8,800	9,000	8,000	7,000	48
Towner	7,600	8,000	6,000	5,500	51
Walsh	17,600	18,000	15,000	13,500	42
Northeast	84,000	83,000	71,000	65,000	
Dunn	94,800	95,000	88,000	78,000	2
McKenzie	76,200	77,000	67,000	61,000	3
McLean	48,000	47,000	41,000	37,000	15
Mercer	46,400	45,000	41,000	38,000	14
Oliver	37,400	37,000	35,000	31,000	19
West Central	302,800	301,000	272,000	245,000	
Eddy	20,000	19,000	19,000	18,000	38
Foster	19,200	18,000	19,000	18,000	38
Kidder	70,200	69,000	64,000	60,000	6
Sheridan	29,000	29,000	27,000	23,000	32
Stutsman	69,200	65,000	61,000	60,000	6
Wells	29,400	28,000	28,000	26,000	26
Central	237,000	228,000	220,000	205,000	
Barnes	29,800	28,000	25,000	23,000	32
Cass	27,800	26,000	24,000	23,000	32
Griggs	20,600	19,000	16,000	15,000	41
Steele	6,200	6,000	5,000	4,500	52
Traill	6,600	7,000	5,000	4,500	52
East Central	91,000	86,000	75,000	70,000	
Adams	35,800	34,000	31,000	28,000	22
Billings	30,600	28,000	29,000	25,000	27
Bowman	33,800	30,000	31,000	27,000	25
Golden Valley	29,600	27,000	28,000	24,000	29
Hettinger	29,400	28,000	27,000	23,000	32
Slope	30,600	27,000	29,000	25,000	27
Stark	62,600	58,000	59,000	48,000	11
Southwest	252,400	232,000	236,000	200,000	
Burleigh	71,800	68,000	65,000	55,000	9
Emmons	75,600	74,000	72,000	60,000	6
Grant	76,600	75,000	73,000	61,000	3
Morton	106,400	105,000	101,000	88,000	1
Sioux	37,400	34,000	38,000	31,000	19
South Central	367,800	356,000	349,000	295,000	
Dickey	57,200	56,000	49,000	43,000	13
LaMoure	40,200	41,000	35,000	32,000	18
Logan	59,200	52,000	60,000	53,000	10
McIntosh	58,800	60,000	53,000	47,000	12
Ransom	34,600	33,000	31,000	28,000	22
Richland	42,800	41,000	36,000	33,000	16
Sargent	33,800	33,000	26,000	24,000	29
Southeast	326,600	316,000	290,000	260,000	
STATE	1,970,000	1,900,000	1,800,000	1,600,000	

1/ Totals may not add due to rounding.

MILK COWS

Inventory, North Dakota, January 1

District and County	5-Year Average 1984-88 1/	1987	1988	1989	
				Head	Rank
	- - - - Number of Head - - - -				
Burke	280	300	200	200	46
Divide	160	100	100	100	52
Mountrail	1,180	1,000	1,100	1,000	27
Renville	560	500	400	400	38
Ward	2,120	2,000	2,000	1,800	16
Williams	380	400	500	400	38
Northwest	4,680	4,300	4,300	3,900	
Benson	1,460	1,200	1,300	1,100	26
Bottineau	400	300	500	400	38
McHenry	3,220	3,100	2,400	2,100	12
Pierce	2,020	1,900	2,000	1,800	16
Rolette	640	500	800	800	30
North Central	7,740	7,000	7,000	6,200	
Cavalier	280	300	200	200	46
Grand Forks	1,020	900	800	700	32
Nelson	920	900	1,000	900	29
Pembina	180	100	200	200	46
Ramsey	500	500	400	300	43
Towner	300	400	200	200	46
Walsh	740	700	600	500	35
Northeast	1,940	1,800	3,400	3,000	
Dunn	1,660	1,600	1,900	1,800	16
McKenzie	420	300	300	300	43
McLean	2,060	1,800	1,900	1,700	20
Mercer	1,820	1,900	1,800	1,700	20
Oliver	2,700	2,400	2,700	2,500	10
West Central	8,660	8,000	8,600	8,000	
Eddy	680	600	600	500	35
Foster	420	400	400	400	38
Kidder	3,120	3,100	3,400	3,000	9
Sheridan	1,700	1,600	1,900	1,800	16
Stutsman	5,140	5,000	5,200	4,900	3
Wells	1,500	1,100	1,400	1,300	24
Central	12,560	12,000	12,900	11,900	
Barnes	1,660	1,400	1,800	1,700	20
Cass	880	800	900	800	30
Griggs	960	700	800	700	32
Steele	200	200	200	200	46
Traill	300	300	300	200	46
East Central	4,000	3,400	4,000	3,600	
Adams	440	300	600	600	34
Billings	420	300	400	400	38
Bowman	140	400	200	100	52
Golden Valley	740	500	600	500	35
Hettinger	2,640	2,600	2,300	2,000	14
Slope	460	500	300	300	43
Stark	4,760	5,000	4,800	4,600	5
Southwest	9,800	9,600	9,200	8,500	
Burleigh	2,180	1,900	2,300	2,100	12
Emmons	8,000	8,000	8,400	7,700	2
Grant	4,980	5,000	5,200	4,800	4
Morton	8,320	8,100	8,800	8,100	1
Sioux	1,280	1,200	1,300	1,200	25
South Central	24,760	24,200	26,000	23,900	
Dickey	2,520	2,400	2,600	2,300	11
LaMoure	4,000	3,700	4,000	3,800	8
Logan	4,720	4,500	4,700	4,300	6
McIntosh	4,820	4,400	4,600	4,200	7
Ransom	1,140	1,100	1,100	1,000	27
Richland	2,380	2,100	2,100	2,000	14
Sargent	1,480	1,500	1,500	1,400	23
Southeast	21,060	19,700	20,600	19,000	
STATE	97,200	92,000	96,000	88,000	

HOGS & PIGS

Inventory, North Dakota, December 1

District and County	5-Year Average 1983-87 1/	1986	1987	1988		1989	
				Head	Rank	Head	Rank
	- - - - Number of Head - - - -						
Burke	560	600	700	800	53		
Divide	2,560	2,600	4,700	5,000	22		
Mountrail	1,100	1,100	1,000	1,100	49		
Renville	620	500	800	900	51		
Ward	2,800	2,600	3,300	3,500	28		
Williams	1,860	1,700	2,500	2,700	33		
Northwest	9,480	9,100	13,000	14,000			
Benson	2,440	2,000	2,300	2,500	36		
Bottineau	1,620	1,900	1,800	1,700	45		
McHenry	2,040	1,500	2,500	2,600	34		
Pierce	700	500	1,300	1,500	47		
Rolette	1,260	1,100	1,600	1,700	45		
North Central	8,060	7,000	9,500	10,000			
Cavalier	1,000	2,500	1,900	1,900	43		
Grand Forks	6,140	6,100	7,300	7,200	16		
Nelson	1,920	1,800	1,600	1,800	44		
Pembina	9,760	9,900	12,500	13,500	9		
Ramsey	2,120	2,500	2,000	2,200	39		
Towner	1,920	1,700	2,400	2,600	34		
Walsh	7,120	7,600	6,300	6,800	17		
Northeast	31,980	32,100	34,000	36,000			
Dunn	3,260	3,200	4,100	4,600	23		
McKenzie	2,880	2,700	4,700	5,100	21		
McLean	3,280	3,200	3,900	4,300	25		
Mercer	1,500	1,300	1,800	2,000	41		
Oliver	6,340	6,400	7,500	8,000	14		
West Central	17,260	16,800	22,000	24,000			
Eddy	840	900	1,000	1,100	49		
Foster	3,260	2,900	2,900	3,200	30		
Kidder	3,040	2,400	4,000	4,400	24		
Sheridan	1,480	1,600	1,800	2,000	41		
Stutsman	8,320	8,200	11,400	12,100	10		
Wells	2,360	2,000	3,900	4,200	26		
Central	19,300	18,000	25,000	27,000			
Barnes	12,220	12,400	14,200	14,200	7		
Cass	21,680	21,800	23,600	23,400	2		
Griggs	2,140	2,200	3,000	3,000	32		
Steele	880	1,100	900	900	51		
Traill	4,720	4,500	5,300	5,500	20		
East Central	41,640	42,000	47,000	47,000			
Adams	2,300	2,000	3,000	3,300	29		
Billings	540	400	1,100	1,300	48		
Bowman	2,020	1,500	3,300	3,700	27		
Golden Valley	3,040	2,000	3,000	3,100	31		
Hettinger	7,540	6,400	9,500	10,100	11		
Slope	4,660	5,400	5,100	5,700	18		
Stark	5,860	5,300	7,000	7,800	15		
Southwest	25,960	23,000	32,000	35,000			
Burleigh	10,240	9,600	9,200	9,200	12		
Emmons	5,520	5,000	5,500	5,700	18		
Grant	13,280	13,700	17,100	17,700	5		
Morton	12,020	11,600	13,700	14,200	7		
Sioux	1,400	1,100	2,000	2,200	39		
South Central	42,460	41,000	47,500	49,000			
Dickey	19,100	21,400	22,100	22,500	1		
LaMoure	8,200	7,000	8,000	8,300	13		
Logan	1,940	1,700	2,300	2,500	36		
McIntosh	2,220	2,200	2,300	2,500	36		
Ransom	11,100	10,700	15,500	16,100	6		
Richland	24,160	26,000	25,300	25,800	1		
Sargent	17,140	17,000	19,500	20,300	4		
Southeast	83,860	86,000	95,000	98,000			
STATE	280,000	275,000	325,000	340,000			

SHEEP

Inventory, North Dakota, January 1

District and County	5-Year Average 1984-88 1/	1987	1988	1989	
				Head	Rank
	- - - - Number of Head - - - -				
Burke	3,140	3,100	2,000	1,700	30
Divide	2,280	2,300	1,600	1,400	35
Mountrail	2,780	2,700	2,700	2,500	24
Renville	420	500	400	400	51
Ward	4,520	4,600	3,400	3,200	19
Williams	8,260	7,800	7,900	7,800	4
Northwest	21,400	21,000	18,000	17,000	
Benson	2,120	1,900	3,200	3,200	19
Bottineau	1,620	1,600	1,500	1,500	34
McHenry	3,700	3,400	3,500	3,600	14
Pierce	980	900	900	800	42
Rolette	2,100	2,200	1,000	900	41
North Central	10,520	10,000	10,100	10,000	
Cavalier	520	400	300	300	53
Grand Forks	2,320	1,700	1,700	1,700	30
Nelson	1,920	1,900	1,800	1,800	29
Pembina	780	600	500	500	48
Ramsey	1,240	1,500	800	800	42
Towner	2,840	1,800	1,700	1,700	30
Walsh	980	1,100	1,200	1,200	36
Northeast	10,600	9,000	8,000	8,000	
Dunn	2,420	2,400	3,200	2,900	21
McKenzie	12,660	11,200	7,100	5,500	7
McLean	2,340	1,900	2,600	2,000	27
Mercer	680	600	1,200	1,000	40
Oliver	2,800	2,900	1,900	1,600	33
West Central	21,100	19,000	16,000	14,000	
Eddy	3,840	3,300	3,000	2,900	21
Foster	2,800	2,800	3,200	3,300	17
Kidder	8,300	9,500	9,000	9,400	3
Sheridan	560	600	400	400	51
Stutsman	6,440	5,600	6,400	7,400	6
Wells	2,880	2,700	2,600	2,600	23
Central	24,820	24,500	24,600	26,000	
Barnes	5,480	6,000	6,300	6,400	8
Cass	8,120	7,300	7,400	7,700	5
Griggs	1,620	1,300	800	700	44
Steele	2,060	1,600	700	700	44
Traill	760	800	500	500	48
East Central	18,040	17,000	15,700	16,000	
Adams	11,340	10,500	10,500	10,000	2
Billings	640	700	700	600	47
Bowman	22,980	24,300	17,400	16,700	1
Golden Valley	3,860	4,200	3,600	3,300	17
Hettinger	960	900	800	700	44
Slope	4,140	3,500	5,000	4,700	11
Stark	3,880	3,900	4,000	3,500	15
Southwest	47,800	48,000	42,000	39,500	
Burleigh	2,620	2,800	3,500	3,400	16
Emmons	1,320	1,200	1,400	1,200	36
Grant	4,440	3,900	4,400	4,100	12
Morton	4,460	4,300	4,500	4,100	12
Sioux	1,880	1,800	1,300	1,200	36
South Central	14,720	14,000	15,100	14,000	
Dickey	7,720	6,800	5,900	5,800	10
LaMoure	5,620	5,600	5,900	6,000	9
Logan	1,440	1,200	500	500	48
McIntosh	1,440	1,100	1,100	1,100	39
Ransom	2,680	2,500	1,900	1,900	28
Richland	2,600	2,400	2,100	2,100	25
Sargent	3,100	2,900	2,100	2,100	25
Southeast	24,600	22,500	19,500	19,500	
STATE	193,600	185,000	169,000	164,000	

1/ Totals may not add due to rounding.

HISTORIC LIVESTOCK ESTIMATES

MEAT ANIMALS (Cattle, Sheep & Hogs): Production & Income,
North Dakota, 1969-88

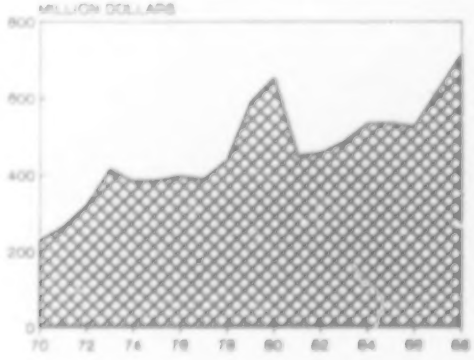
Year	Production	Marketings	Avg. Price per 100 Lbs.	Value of Production	Cash Receipts	Value of Home Consumption	Gross Income
	- - - 000 Lbs. - - -		(Dols.)	- - - - - - - - - - 000 Dollars - - - - - - - - - -			
1969	852,366	828,853	25.81	220,779	214,056	8,151	222,207
1970	894,029	818,837	26.78	241,618	219,307	9,317	228,624
1971	996,562	932,374	27.17	273,767	253,347	9,782	263,129
1972	1,003,695	922,526	33.55	339,535	309,501	10,345	319,846
1973	1,046,453	896,622	44.57	467,914	399,655	14,335	413,990
1974	1,117,314	1,082,104	34.01	379,795	368,009	14,828	382,837
1975	1,018,448	1,203,866	31.15	321,860	375,020	9,902	384,922
1976	977,472	1,112,526	34.62	340,174	385,138	10,430	395,568
1977	870,004	1,060,853	35.59	312,232	377,556	10,001	387,557
1978	782,866	833,097	50.46	392,701	420,395	16,764	437,159
1979	863,865	843,432	67.73	582,259	571,269	16,589	587,858
1980	934,292	1,045,550	60.87	563,986	636,380	15,743	652,123
1981	905,927	799,762	54.70	496,159	437,431	10,475	447,906
1982	849,966	848,756	52.62	449,466	446,633	8,216	454,849
1983	914,974	894,935	51.15	485,509	475,641	8,778	484,419
1984	927,466	984,213	53.22	491,691	523,793	8,694	532,487
1985	934,119	971,795	51.87	500,302	524,548	8,915	533,463
1986	866,482	980,807	52.71	457,741	517,023	7,692	524,715
1987	863,908	936,130	65.04	560,601	608,848	8,907	617,755
1988	752,686	977,040	71.86	540,091	702,137	8,902	711,039

CATTLE & HOG INVENTORY AND
NUMBER OF FARMS
North Dakota, 1965-89

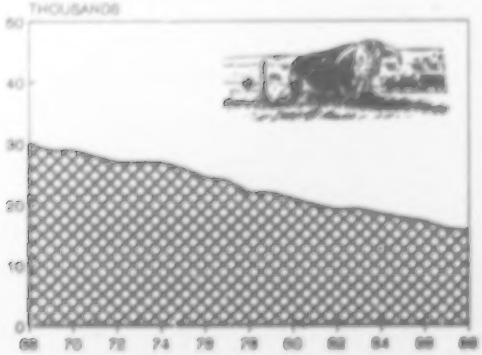
Year	Cattle		Hogs	
	Jan. 1 Inventory	No. of Farms	Dec. 1 1/ Inventory	No. of Farms
	(000 Hd.)	(000)	(000 Hd.)	(000)
1965	2,411	35.0	341	11.0
1966	2,315	34.0	290	11.5
1967	2,292	32.0	331	10.5
1968	2,154	30.0	328	9.5
1969	2,068	29.0	321	8.0
1970	2,110	29.0	302	8.5
1971	2,230	28.0	406	9.0
1972	2,319	27.0	379	7.7
1973	2,435	27.0	356	7.4
1974	2,635	27.0	374	6.4
1975	2,635	26.0	322	5.0
1976	2,380	24.5	350	5.1
1977	2,235	24.0	330	5.0
1978	2,050	22.0	320	4.8
1979	1,987	22.0	335	4.5
1980	2,000	21.0	370	4.0
1981	1,850	20.0	265	3.6
1982	2,000	19.2	280	2.8
1983	2,050	19.0	210	2.8
1984	2,100	18.5	260	3.0
1985	2,050	17.8	255	3.0
1986	2,000	17.2	285	3.0
1987	1,900	16.0	275	2.6
1988	1,800	15.6	325	2.6
1989	1,600	NA	340	NA

1/ December 1 previous year. NA - Not available.

GROSS FARM INCOME FROM MEAT ANIMALS
NORTH DAKOTA, 1970 - 88



NUMBER OF CATTLE OPERATIONS
NORTH DAKOTA, 1960 - 88



PRICES

NORTH DAKOTA PRICES

Prices for all farm commodities, as a group, averaged 26 percent higher during 1988 than for 1987. This is based on the Index of Prices Received for All Farm Products, which averaged 152 percent of its 1977 base compared to 121 for the previous year. Higher crop prices, as a result of the 1988 drought, were mostly responsible for the substantial Index increase. The Index reached a record high of 160 percent in 1980.

The All Crops Index for 1988, at 141, was 34 percent above the average for 1987. The All Livestock Products Index, at 181, was 7 percent greater than 1987.

Prices received by farmers for the 1988 crop marketing season averaged higher for all crop commodities. The 1988 marketing year average price for spring wheat was 38 percent higher than a year ago while durum rose 43 percent. Barley prices increased 82 percent as sunflower advanced 43 percent.

Market year average prices for livestock and livestock products during 1988 averaged higher than a year ago for beef cattle, steers and heifers, cows, calves, milk cows, chickens, turkeys and wool. Prices were lower for hogs, sheep, lambs, wholesale milk and eggs. The 1988 marketing year average price for beef cattle increased 11 percent from 1987 while steers and heifers advanced 12 percent.

INDEXES OF PRICES RECEIVED BY FARMERS, BY MONTH AND CALENDAR YEAR AVERAGE
North Dakota, 1987-88

Commodity	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Avg.
							(1977 = 100) 1/						
1987													
All Farm Products	117	120	120	122	123	120	118	120	122	124	126	125	121
All Crops	102	103	104	107	109	109	105	101	102	105	108	107	105
Food Grains	114	115	117	118	120	115	108	107	118	121	125	121	117
Feed Grains & Hay	84	89	90	90	96	98	93	80	82	88	95	94	90
Oil Bearing Crops	66	67	66	71	73	75	74	69	67	67	69	71	70
Other Crops 2/	142	138	143	150	152	173	174	174	130	129	129	132	147
All Livestock Products	164	169	167	169	163	153	156	174	181	180	179	178	169
Meat Animals	172	179	177	181	174	162	165	188	195	194	192	191	181
Dairy Products	138	135	133	128	126	122	124	127	131	134	133	130	130
Poultry, Eggs & Wool	94	93	94	94	94	94	94	94	94	94	94	107	95
1988													
All Farm Products	129	133	131	132	133	152	166	170	169	169	169	167	152
All Crops	107	110	109	113	116	148	165	166	165	162	165	161	141
Food Grains	119	121	115	123	126	161	177	176	175	169	171	165	150
Feed Grains & Hay	91	93	96	100	102	154	184	185	184	181	176	168	143
Oil Bearing Crops	78	81	83	86	92	107	119	127	120	118	122	125	105
Other Crops 2/	129	135	143	138	135	143	158	149	161	167	185	187	153
All Livestock Products	190	193	191	183	179	163	168	180	181	186	181	182	181
Meat Animals	207	211	210	200	195	176	181	195	193	198	192	192	196
Dairy Products	127	124	122	120	117	114	119	123	134	142	144	144	128
Poultry, Eggs & Wool	108	108	108	108	108	108	108	108	108	108	108	108	108

1/ Base price is 1977 average. Quantity weights based on moving three-year average sales. 2/ Potatoes, dry edible beans and sugarbeets.

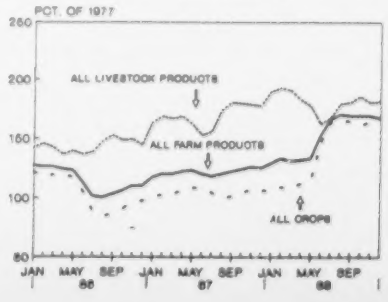
INDEXES OF PRICES RECEIVED BY FARMERS
Annual Average, North Dakota, 1979-88

Year	All Commodities	All Crops	All Livestock	Year	All Commodities	All Crops	All Livestock
	(1977=100)				(1910-1914=100)		
1979	145	131	182	1979	504	395	881
1980	160	158	167	1980	556	476	809
1981	154	155	152	1981	535	467	736
1982	134	129	149	1982	466	389	721
1983	139	136	148	1983	483	410	717
1984	145	144	148	1984	504	434	717
1985	133	129	146	1985	462	389	707
1986	114	104	144	1986	396	314	697
1987	121	105	169	1987	421	317	818
1988	152	141	181	1988	528	425	876

AVERAGE PRICE RECEIVED BY FARMERS FOR POULTRY, POULTRY PRODUCTS & WOOL, North Dakota, 1984-88

Year	Chickens	Turkeys	Eggs	Wool
	(Dollars per Pound)		($/doz.)	($/lb.)
1984	.08	.44	.66	.70
1985	.10	.47	.42	.55
1986	.09	.48	.46	.58
1987	.06	.30	.40	.72
1988	.08	.40	.35	1.06

INDEX OF PRICES RECEIVED
NORTH DAKOTA, 1986 - 88



NORTH DAKOTA PRICES CONT.

PRICES RECEIVED BY PRODUCERS
For Selected Crops, North Dakota, 1984-88 1/

Commodity	Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Mktg. Yr. Average
		- - - - - Dollars - - - - -												
All Wheat (per bu)	1984	3.64	3.57	3.68	3.81	3.84	3.83	3.69	3.63	3.60	3.55	3.59	3.51	3.57
	1985	3.50	3.52	3.51	3.58	3.54	3.50	3.31	3.10	3.12	3.20	3.38	3.41	3.26
	1986	3.33	3.27	3.34	3.45	3.43	2.92	2.30	2.23	2.30	2.28	2.53	2.58	2.54
	1987	2.73	2.76	2.80	2.83	2.86	2.74	2.58	2.56	2.83	2.89	2.98	2.89	2.95
	1988	2.85	2.91	2.76	2.95	3.03	3.85	4.23	4.21	4.19	4.05	4.09	3.94	4.15
Spring Wheat Other than Durum (per bu)	1984	3.54	3.54	3.63	3.76	3.85	3.83	3.68	3.50	3.51	3.47	3.48	3.42	3.51
	1985	3.49	3.49	3.49	3.57	3.56	3.53	3.34	3.09	3.16	3.34	3.49	3.56	3.34
	1986	3.54	3.43	3.49	3.59	3.49	2.72	2.33	2.32	2.31	2.22	2.53	2.51	2.52
	1987	2.68	2.68	2.64	2.62	2.79	2.54	2.43	2.44	2.57	2.64	2.67	2.73	2.80
	1988	2.78	2.77	2.70	2.85	2.95	3.36	3.64	3.73	3.79	3.78	3.74	3.78	3.85
Durum Wheat (per bu)	1984	3.80	3.62	3.85	3.90	3.82	3.84	3.72	3.86	3.79	3.73	3.75	3.68	3.70
	1985	3.55	3.60	3.55	3.60	3.53	3.46	3.26	3.15	3.07	3.01	3.07	3.16	3.16
	1986	3.16	3.16	3.20	3.29	3.37	3.18	2.28	2.11	2.29	2.35	2.54	2.64	2.66
	1987	2.82	2.92	3.03	3.12	3.12	3.15	3.00	2.88	3.18	3.26	3.31	3.18	3.38
	1988	3.08	3.24	2.89	3.20	3.33	4.78	5.24	5.30	5.14	4.96	4.88	4.59	4.85
Oats (per bu)	1984	1.48	1.42	1.47	1.49	1.60	1.58	1.50	1.35	1.35	1.43	1.45	1.50	1.42
	1985	1.44	1.44	1.50	1.50	1.47	1.37	1.18	.97	.98	.95	1.03	1.10	1.05
	1986	1.13	1.04	1.04	1.16	1.04	.99	.84	.85	.85	1.00	1.30	1.34	1.20
	1987	1.29	1.28	1.29	1.31	1.43	1.33	1.26	1.31	1.38	1.51	1.60	1.67	1.57
	1988	1.70	1.70	1.58	1.72	1.70	2.59	2.69	2.22	2.73	2.51	2.50	2.37	2.40
All Barley (per bu)	1984	2.27	2.23	2.31	2.38	2.41	2.42	2.18	1.88	1.89	1.90	1.91	1.90	1.94
	1985	1.89	1.97	1.99	1.98	1.94	1.93	1.73	1.51	1.46	1.60	1.65	1.73	1.60
	1986	1.82	1.82	1.78	1.70	1.51	1.35	1.20	1.06	1.14	1.31	1.43	1.42	1.37
	1987	1.42	1.53	1.54	1.53	1.65	1.65	1.58	1.29	1.32	1.44	1.52	1.54	1.70
	1988	1.47	1.51	1.58	1.64	1.65	2.57	3.20	3.25	3.27	3.22	3.08	2.90	3.10
Barley, Feed (per bu)	1984	2.20	2.19	2.16	2.23	2.31	2.31	2.11	1.81	1.82	1.83	1.83	1.84	1.83
	1985	1.78	1.82	1.85	1.85	1.76	1.71	1.52	1.47	1.36	1.44	1.55	1.66	1.45
	1986	1.74	1.63	1.57	1.53	1.39	1.25	1.13	1.03	1.10	1.24	1.30	1.31	1.25
	1987	1.40	1.48	1.47	1.42	1.54	1.56	1.47	1.20	1.26	1.30	1.43	1.42	1.40
	1988	1.43	1.39	1.47	1.47	1.52	2.03	2.42	2.19	2.17	2.28	2.07	2.15	2.07
Barley, Malting (per bu)	1984	2.34	2.29	2.37	2.45	2.46	2.49	2.19	1.96	1.97	1.96	1.96	1.94	2.01
	1985	1.96	2.03	2.04	2.03	2.03	1.97	1.82	1.65	1.65	1.75	1.76	1.81	1.72
	1986	1.87	1.88	1.88	1.78	1.59	1.50	1.30	1.16	1.29	1.41	1.47	1.44	1.48
	1987	1.44	1.60	1.60	1.63	1.70	1.68	1.65	1.44	1.56	1.52	1.56	1.62	1.87
	1988	1.56	1.58	1.62	1.70	1.76	2.72	3.38	3.58	3.51	3.48	3.33	3.32	3.30
Rye (per bu)	1984	2.03	1.81	1.89	1.82	1.81	1.98	1.74	1.51	1.53	1.65	1.72	1.78	1.76
	1985	2.08	1.97	1.95	2.44	1.62	1.76	1.70	1.56	1.95	1.83	2.00	1.96	1.82
	1986	1.96	1.65	1.88	1.69	1.77	1.58	1.02	1.00	1.00	.87	.99	1.45	1.16
	1987	1.19	1.24	1.44	1.24	1.27	1.16	1.14	.93	1.08	1.40	1.33	1.19	1.31
	1988	1.37	1.10	1.06	1.00	1.13	1.87	1.68	1.75	1.85	1.89	1.77	1.80	1.90
Flaxseed (per bu)	1984	6.86	7.05	7.07	7.13	7.24	6.74	6.10	6.03	5.69	5.65	5.85	6.05	6.07
	1985	6.61	6.65	6.10	6.66	6.94	6.55	6.20	5.85	5.46	5.01	4.79	4.78	5.00
	1986	4.78	4.96	4.95	4.88	4.89	4.95	4.41	3.74	3.67	3.46	3.39	3.41	3.45
	1987	3.18	3.13	3.07	3.16	3.34	3.45	3.49	3.35	3.14	3.07	3.02	3.19	3.39
	1988	3.45	3.81	3.96	4.10	4.17	5.28	6.26	7.21	7.62	7.79	8.18	8.37	7.65
Corn (per bu)	1984	2.99	2.95	3.04	3.21	3.24	3.22	3.15	3.05	2.85	2.60	2.57	2.52	2.57
	1985	2.55	2.53	2.56	2.61	2.60	2.61	2.57	2.54	2.52	2.17	2.19	2.26	2.17
	1986	2.21	2.20	2.23	2.15	2.17	2.17	1.96	1.47	1.07	1.31	1.31	1.30	1.42
	1987	1.34	1.37	1.35	1.42	1.44	1.60	1.50	1.36	1.46	1.50	1.78	1.61	1.91
	1988	1.67	1.70	1.76	1.81	1.93	2.47	2.77	2.78	2.38	2.39	2.41	2.48	2.40
Soybeans (per bu)	1984	7.25	6.94	7.30	7.74	8.11	7.69	7.13	6.17	5.84	5.81	5.87	5.60	5.59
	1985	5.34	5.55	5.56	5.70	5.46	5.47	5.21	4.96	4.79	4.44	4.76	4.94	4.79
	1986	5.08	4.96	4.98	5.00	4.52	5.00	4.66	4.74	4.27	4.37	4.49	4.53	4.63
	1987	4.39	4.53	4.55	4.66	4.90	5.12	5.13	4.88	4.85	4.92	5.07	5.31	5.27
	1988	5.50	5.66	6.01	6.09	6.46	7.28	7.95	7.88	7.08	6.97	7.24	7.18	7.25
Sunflower, All (per cwt)	1984	13.70	13.10	14.10	15.30	16.30	16.60	16.30	---	---	11.60	11.00	11.20	11.30
	1985	11.10	11.40	11.20	12.00	12.10	11.50	10.70	9.65	---	11.30	9.08	8.53	8.01
	1986	8.82	7.98	7.95	7.10	7.23	7.05	6.27	6.04	6.07	7.33	6.51	6.51	7.10
	1987	6.91	7.07	6.87	7.57	7.67	7.80	7.61	7.12	6.83	6.89	6.99	7.20	8.46
	1988	7.96	8.35	8.40	8.71	9.51	11.10	12.20	13.30	12.70	12.40	12.70	13.20	12.10
Sunflower, Oil (per cwt)	1984	13.70	13.20	14.20	15.40	16.50	17.20	16.80	---	11.00	11.20	10.80	10.80	11.00
	1985	10.50	10.90	11.10	12.00	12.00	11.50	10.60	9.65	---	8.06	7.68	7.55	7.32
	1986	8.14	7.22	7.30	6.89	7.06	6.89	6.13	5.88	5.82	6.27	6.26	6.08	6.66
	1987	6.13	6.11	6.40	7.21	7.52	7.62	7.40	6.87	6.72	6.48	6.49	6.90	8.25
	1988	7.69	7.96	8.23	8.49	9.42	11.10	12.90	13.00	11.80	11.50	10.80	11.10	11.40
Sunflower, Non-Oil (per cwt)	1984	14.20	18.60	13.00	12.30	13.30	12.50	13.90	---	13.90	14.20	15.00	17.30	14.90
	1985	15.60	14.40	14.80	14.10	14.80	14.80	14.50	---	---	13.40	13.50	13.40	13.30
	1986	13.20	13.50	12.50	11.30	12.80	12.80	10.30	11.00	8.80	9.62	9.53	9.93	9.55
	1987	9.60	9.20	9.51	9.32	9.38	10.00	9.64	8.90	8.92	8.58	9.23	9.37	9.78
	1988	9.45	9.56	9.74	10.10	9.80	10.90	20.10	22.50	15.40	14.00	17.40	18.90	15.60
Dry Beans (per cwt)	1984	17.50	17.80	17.30	16.20	17.00	15.60	14.60	17.00	17.00	15.90	14.50	15.00	16.10
	1985	15.50	14.60	15.50	16.40	16.70	17.00	18.00	17.30	14.60	15.20	14.70	14.30	14.40
	1986	15.30	14.00	12.80	13.30	13.40	13.60	14.20	13.50	15.40	21.30	20.80	19.30	17.60
	1987	17.20	13.90	13.60	14.20	12.70	13.80	14.10	14.20	13.80	12.60	10.80	10.20	12.90
	1988	10.40	11.10	12.20	13.50	14.80	18.50	25.50	21.40	21.80	24.80	25.30	26.60	26.80

See footnotes page 98.

NORTH DAKOTA PRICES CONT.

PRICES RECEIVED BY PRODUCERS
For Selected Crops, North Dakota, 1984-88 1/

Commodity	Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Mktg. Yr. Average
		- - - - Dollars - - - -												
Potatoes (per cwt)	1984	5.00	5.00	5.60	6.10	6.80	---	---	---	3.30	3.75	3.95	4.25	4.65
	1985	4.65	5.25	5.40	5.50	5.00	4.50	---	---	3.10	2.95	3.25	3.25	3.20
	1986	3.50	3.60	3.50	2.85	2.65	2.65	---	---	2.80	3.30	4.00	3.90	4.20
	1987	4.00	4.20	4.65	5.15	5.60	7.25	---	---	2.85	2.95	3.20	3.55	3.50
	1988	3.45	3.95	4.50	3.70	3.15	---	---	---	4.25	4.15	5.80	5.80	6.20
Sugarbeets (per ton)	1984													37.00
	1985													35.50
	1986					Yearly			Only					39.30
	1987													43.90
	1988													NA
All Hay, Baled (per ton)	1984	40.00	39.00	40.00	40.00	41.00	41.00	42.00	41.00	42.00	43.00	43.00	42.00	43.00
	1985	42.00	43.00	44.00	44.00	44.00	42.00	45.00	51.00	53.00	52.00	50.00	53.00	51.50
	1986	54.00	55.00	55.00	55.00	50.00	50.00	43.00	37.00	36.00	34.00	36.00	37.00	37.00
	1987	34.00	34.00	34.00	32.00	35.00	41.00	36.00	37.00	37.00	36.00	36.00	34.00	36.50
	1988	34.00	37.00	35.00	36.00	41.00	68.00	70.00	75.00	76.00	75.00	77.00	78.00	76.50
Alfalfa Hay, Baled (per ton)	1984	46.00	45.00	46.00	45.00	48.00	49.00	47.00	47.00	47.00	49.00	49.00	48.00	NA
	1985	48.00	50.00	50.00	51.00	51.00	48.00	52.00	58.00	61.00	60.00	58.00	62.00	NA
	1986	63.00	64.00	63.00	63.00	57.00	57.00	48.00	41.00	41.00	40.00	41.00	42.00	NA
	1987	39.00	39.00	38.00	37.00	39.00	46.00	42.00	44.00	41.00	41.00	40.00	39.00	NA
	1988	40.00	42.00	40.00	42.00	48.00	83.00	84.00	91.00	95.00	92.00	91.00	92.00	NA
Other Hay, Baled (per ton)	1984	31.00	31.00	32.00	31.00	33.00	32.00	35.00	32.00	34.00	34.00	33.00	33.00	NA
	1985	32.00	33.00	34.00	34.00	33.00	32.00	34.00	41.00	40.00	40.00	40.00	43.00	NA
	1986	43.00	43.00	44.00	44.00	41.00	41.00	37.00	29.00	26.00	24.00	28.00	29.00	NA
	1987	26.00	27.00	27.00	25.00	29.00	33.00	27.00	29.00	30.00	28.00	29.00	28.00	NA
	1988	26.00	29.00	28.00	27.00	33.00	56.00	58.00	62.00	61.00	61.00	59.00	61.00	NA
Beef Cattle (per 100 lbs)	1984	54.30	57.40	58.30	56.80	53.80	50.20	52.70	52.70	52.40	47.20	48.50	47.90	52.70
	1985	56.50	58.90	58.10	56.40	54.80	49.70	45.60	49.50	49.90	51.50	52.10	48.80	53.30
	1986	51.10	53.40	52.40	49.30	49.70	47.90	48.30	52.10	54.40	52.00	52.40	49.60	51.30
	1987	60.80	63.40	63.00	63.70	60.60	54.60	55.30	64.70	68.00	68.30	68.40	67.90	64.10
	1988	74.10	76.00	75.50	71.30	68.60	60.50	61.60	67.80	68.30	70.90	68.70	68.60	71.00
Steers & Heifers (per 100 lbs)	1984	62.00	62.00	62.10	60.20	58.50	56.90	59.30	57.00	59.10	56.90	59.40	60.40	59.80
	1985	64.00	63.90	62.60	60.90	60.00	57.00	51.80	53.50	54.00	56.70	58.30	56.30	58.90
	1986	57.80	57.40	56.00	52.60	52.90	53.10	55.10	58.70	59.50	57.70	60.20	60.90	57.00
	1987	65.10	66.80	65.80	68.20	66.40	65.30	65.20	71.80	74.10	75.40	77.60	75.60	70.00
	1988	79.20	79.80	79.20	76.40	73.80	70.60	72.90	75.60	79.70	83.60	81.40	80.00	78.30
Cows (per 100 lbs)	1984	33.60	39.00	41.30	41.50	40.70	40.10	39.00	36.50	34.70	34.50	32.10	33.00	36.20
	1985	36.00	39.70	40.00	39.30	38.80	37.40	34.70	35.10	33.60	33.20	32.30	30.80	35.50
	1986	33.40	36.10	36.50	34.10	36.60	36.60	37.10	36.40	36.30	35.00	33.50	34.00	35.10
	1987	38.80	41.60	43.50	43.50	43.10	44.50	43.90	43.70	46.50	43.80	43.00	46.60	43.60
	1988	46.50	49.60	49.10	48.20	47.30	42.40	44.30	44.80	45.90	43.50	43.50	44.70	45.60
Calves (per 100 lbs)	1984	62.90	63.50	62.90	62.20	61.60	58.10	60.60	61.10	62.40	60.80	62.10	63.20	62.30
	1985	65.70	66.90	67.00	66.00	65.90	61.90	59.00	65.80	63.10	63.80	63.50	59.30	64.10
	1986	61.70	60.30	61.60	58.40	61.10	57.80	59.70	62.50	63.60	65.10	63.80	65.90	63.50
	1987	69.30	73.00	71.90	75.20	73.90	75.20	77.40	85.30	88.10	85.80	86.70	86.40	81.60
	1988	90.50	90.90	91.90	92.00	89.50	87.90	98.80	100.00	93.20	91.10	88.70	88.10	91.90
Hogs 2/ (per 100 lbs)	1984	46.10	42.40	43.80	45.00	44.60	45.40	47.10	46.30	42.70	39.90	43.10	45.30	44.00
	1985	45.20	46.30	41.30	39.00	39.40	42.50	42.60	39.90	36.80	40.60	40.40	42.30	41.70
	1986	41.60	40.40	37.60	38.00	44.60	50.00	56.40	59.60	56.40	51.90	50.60	48.90	47.60
	1987	45.50	46.50	45.80	49.20	51.20	55.10	56.70	55.40	51.20	46.00	37.90	38.00	49.00
	1988	41.90	43.00	39.80	39.40	43.90	43.10	39.10	40.70	36.70	35.20	32.40	37.10	39.40
Sheep (per 100 lbs)	1984	12.70	12.90	13.50	12.30	9.42	10.10	12.20	11.40	14.40	11.70	12.80	13.50	12.60
	1985	16.50	17.80	16.80	17.90	16.30	16.00	17.50	20.50	21.50	21.20	24.00	20.90	18.80
	1986	25.70	22.10	19.20	17.70	20.30	18.70	21.10	21.30	21.40	23.50	27.30	24.60	21.80
	1987	24.30	20.40	21.60	20.90	20.30	22.00	21.00	19.20	24.60	33.50	28.20	25.00	24.80
	1988	29.60	29.00	21.40	19.50	15.50	15.00	15.70	21.30	19.20	23.60	27.80	25.00	21.30
Lambs (per 100 lbs)	1984	55.30	55.70	53.70	50.60	45.10	48.10	54.10	56.80	60.50	59.60	62.00	56.80	57.80
	1985	61.60	64.90	66.40	60.20	58.10	64.40	68.70	70.20	68.60	64.70	64.50	62.90	65.30
	1986	63.90	67.20	62.80	67.00	72.30	73.00	71.60	68.90	64.60	62.40	67.80	76.40	67.80
	1987	79.90	79.70	80.40	79.30	81.70	76.60	75.20	76.10	78.80	80.20	74.60	79.60	78.20
	1988	86.00	83.70	77.00	64.40	68.20	60.40	60.50	58.90	63.70	65.90	66.60	69.50	67.80
Milk Cows (per head)	1984	740			790			800			780			780
	1985	740			770			740			700			740
	1986	630	Quarterly Only		640	Quarterly Only		660	Quarterly Only		700	Quarterly Only		660
	1987	700			770			800			850			780
	1988	850			890			790			835			840
Milk, Wholesale (per cwt)	1984	12.40	12.10	12.10	12.00	11.90	11.70	11.80	12.00	12.60	12.90	13.00	12.90	12.30
	1985	12.70	12.40	12.10	11.60	11.20	10.90	10.70	10.90	11.10	11.30	11.40	11.40	11.40
	1986	11.20	11.10	11.00	10.90	10.80	10.70	10.80	11.10	11.80	12.10	12.30	12.20	11.30
	1987	11.90	11.60	11.40	11.00	10.80	10.50	10.70	10.90	11.30	11.50	11.40	11.20	11.10
	1988	10.90	10.70	10.50	10.30	10.10	9.80	10.20	10.60	11.50	12.20	12.40	12.40	10.90

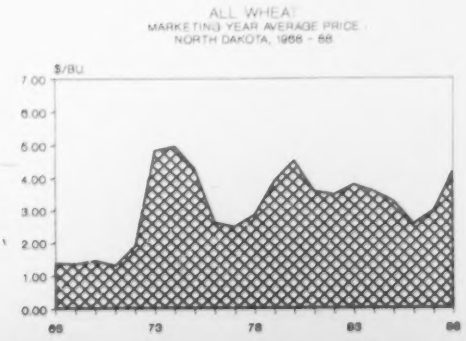
1/ Crops prices are open market prices and do not make an allowance for unredeemed loans. 2/ Marketing year average is based on marketing year of December through November. NA - Not Available.

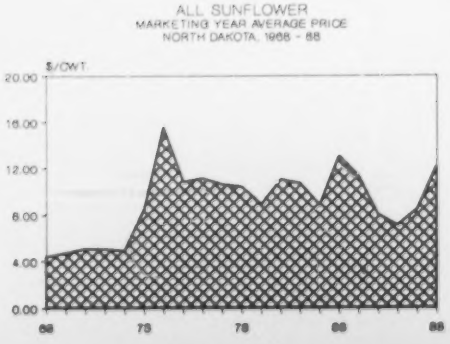
NORTH DAKOTA PRICES CONT.

MARKETING YEAR AVERAGE PRICES RECEIVED BY FARMERS FOR SELECTED CROPS, by Agricultural Statistics Districts, North Dakota, Crops of 1984-88 1/

Crop	Crop Year	Northwest	North Central	Northeast	West Central	Central	East Central	Southwest	South Central	Southeast	State Average
						--- Dollars per Bushel ---					
All Wheat	1984	3.55	3.61	3.64	3.50	3.62	3.56	3.42	3.40	3.58	3.57
	1985	3.14	3.17	3.30	3.25	3.29	3.26	3.39	3.52	3.41	3.26
	1986	2.35	2.66	2.57	2.62	2.57	2.58	2.76	2.63	2.74	2.54
	1987	3.10	2.94	2.87	2.85	3.32	2.89	2.86	2.92	2.85	2.95
	2/ 1988	4.11	4.27	4.06	4.23	4.14	3.82	5.69	4.15	3.86	4.15
Durum Wheat	1984	3.57	3.69	3.81	3.49	3.78	3.81	3.48	3.53	3.79	3.70
	1985	3.10	3.17	3.24	3.08	3.21	3.23	3.17	3.16	3.25	3.16
	1986	2.61	2.75	2.66	2.84	2.47	2.95	2.94	3.01	2.90	2.66
	1987	3.42	3.22	3.31	3.14	3.76	3.63	3.31	3.21	3.44	3.38
	2/ 1988	4.74	4.83	5.01	4.51	4.93	4.78	4.97	5.44	4.74	4.85
Spring Wheat Other Than Durum	1984	3.52	3.45	3.51	3.51	3.55	3.55	3.42	3.39	3.56	3.51
	1985	3.21	3.18	3.34	3.37	3.34	3.27	3.45	3.55	3.46	3.34
	1986	2.07	2.54	2.57	2.56	2.70	2.66	2.83	2.70	2.89	2.52
	1987	2.71	2.58	2.72	2.67	3.03	2.88	2.84	2.96	2.84	2.80
	2/ 1988	3.63	3.87	3.88	3.90	3.78	3.93	4.03	3.94	3.92	3.85
Oats	1984	1.42	1.33	1.41	1.40	1.41	1.53	1.31	1.33	1.43	1.42
	1985	1.03	1.02	1.07	1.05	1.05	1.01	1.19	1.17	1.05	1.05
	1986	1.21	1.19	1.13	1.23	1.17	1.12	1.31	1.21	1.18	1.20
	1987	1.66	1.55	1.52	1.46	1.49	1.59	1.52	1.61	1.56	1.57
	2/ 1988	2.31	2.19	2.26	2.31	2.24	2.29	2.37	2.84	2.30	2.40
Malting Barley	1984	1.98	1.94	1.98	1.99	1.92	2.08	1.98	1.80	2.13	2.01
	1985	1.73	1.65	1.62	1.45	1.67	1.80	1.73	1.68	1.73	1.72
	1986	1.47	1.52	1.40	1.36	1.35	1.50	1.94	---	1.58	1.48
	1987	1.47	1.68	1.92	2.55	1.87	2.00	2.10	---	1.71	1.87
	2/ 1988	2.77	2.84	3.14	2.87	2.68	3.51	---	2.61	3.09	3.30
Feed Barley	1984	1.75	1.79	1.84	1.68	1.83	1.91	1.86	1.78	1.83	1.83
	1985	1.48	1.44	1.41	1.48	1.47	1.40	1.70	1.47	1.50	1.45
	1986	1.25	1.24	1.19	1.33	1.24	1.31	1.42	1.38	1.30	1.25
	1987	1.30	1.31	1.40	1.31	1.42	1.57	1.39	1.49	1.55	1.40
	2/ 1988	2.12	2.10	2.14	2.02	1.98	1.97	2.14	1.95	2.17	2.07
All Barley	1984	1.91	1.87	1.93	1.74	1.85	2.04	1.89	1.78	2.04	1.94
	1985	1.67	1.52	1.51	1.48	1.50	1.70	1.70	1.52	1.70	1.60
	1986	1.38	1.47	1.27	1.33	1.29	1.42	1.42	1.38	1.53	1.37
	1987	1.35	1.59	1.76	1.75	1.65	1.90	1.40	1.49	1.68	1.70
	2/ 1988	2.64	2.51	2.99	2.47	2.36	3.40	2.14	1.95	2.36	3.10
Flaxseed	1984	6.01	5.69	5.68	5.80	5.90	6.39	5.74	5.64	6.04	6.07
	1985	4.90	4.84	4.85	4.92	5.04	5.07	5.89	4.80	5.30	5.00
	1986	3.34	3.43	3.42	3.41	3.50	3.67	2.81	3.44	3.49	3.45
	1987	3.32	3.38	3.34	3.27	3.48	3.60	3.27	3.15	3.42	3.39
	2/ 1988	7.82	7.55	7.18	7.98	7.94	7.90	8.19	8.20	8.00	7.65
						--- Dollars per Hundredweight ---					
All Sunflower	1984	10.45	10.55	12.22	10.68	10.83	11.50	9.53	10.26	12.26	11.30
	1985	5.62	6.05	9.17	6.32	6.79	9.08	6.06	6.04	7.49	8.01
	1986	5.69	6.09	7.74	6.06	6.28	7.86	6.38	6.07	7.33	7.10
	1987	7.29	7.39	9.14	7.31	8.09	9.04	7.35	6.89	9.23	8.46
	2/ 1988	9.72	9.92	12.78	10.05	10.52	12.95	10.50	9.30	12.29	12.10

1/ Crops prices are open market prices and do not make an allowance for unredeemed loans.
2/ Preliminary prices based on data available in April.





- NOTES -

- FERTILIZER
- PESTICIDES
- EXPORTS

MISCELLANEOUS

- GRAIN SHIPMENTS
- CUSTOM RATES

FERTILIZER & EXPORTS

Consumption of Fertilizer and Plant Nutrients, North Dakota, 1983-88

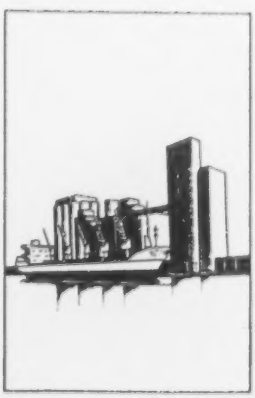
Year Ended June 30	Gross Tonnages				Nutrient Content			
	Mixed Fertlizer	Primary Nutrient Material	Secondary & Micro-Nutrients	Total	N	Available P_2O_5	K_2O	Total
	- - - - - - - - - - Tons - - - - - - - - - -							
1983	243,771	291,205	648	535,624	208,885	100,524	17,733	327,142
1984	254,123	295,954	1,284	551,361	214,416	108,609	19.000	342,025
1985	298,760	378,253	1,577	678,590	268,598	125,798	24,707	419,103
1986	318,582	440,851	1,841	761,274	311,023	138,995	23,181	473,199
1987	328,263	447,948	990	777,201	318,176	139,035	26,750	483,961
1988	326,857	405,633	4,120	736,610	283,725	138,960	29,892	452,577

Source: Tennessee Valley Authority.

Fertilizer Use on Wheat Acreage Harvested, North Dakota, 1983-88

Year	Acres for Harvest	Fields in Survey	Acres Receiving				Application Rates			Proportion Fertilized 1/		
			Any Fertilizer	N	P_2O_5	K_2O	N	P_2O_5	K_2O	At or Before Seeding	After Seeding	Both
	(000)	(No.)	- - - - Percent - - - -				- - Pounds - -			- - - Percent - - -		
						ALL WHEAT						
1983	7,190	241	71.0	71.0	60.0	11.0	46.0	27.0	10.0	99.0	1.0	0.0
1984	8,660	254	72.0	72.0	63.0	5.0	43.0	25.0	19.0	98.0	2.0	0.0
1985	8,870	234	72.0	72.0	64.0	9.0	38.0	29.0	18.0	99.0	0.0	1.0
1986	9,380	250	81.0	81.0	70.0	7.0	44.0	27.0	14.0	98.0	1.0	1.0
1987	8,950	240	80.0	80.0	70.0	11.0	51.0	28.0	17.0	98.0	0.0	2.0
1988	7,100	240	75.0	75.0	67.0	9.0	47.0	29.0	16.0	97.0	0.0	2.0
						DURUM WHEAT						
1987	2,850	131	70.0	70.0	56.0	6.0	46.0	28.0	13.0	97.0	1.0	2.0
1988	2,500	125	66.0	66.0	55.0	3.0	39.0	27.0	*	98.0	1.0	1.0
						OTHER SPRING WHEAT						
1987	6,100	109	84.0	84.0	76.0	14.0	53.0	29.0	17.0	98.0	0.0	2.0
1988	4,600	105	79.0	79.0	73.0	12.0	50.0	30.0	17.0	99.0	0.0	1.0

1/ Percentages apply to acres receiving fertilizer. * Insufficient Data. Source: Agricultural Resources, Situation & Outlook, February 1989.



Value of Export Shares of Agricultural Commodities, North Dakota, 1986-88 1/

Commodity or Group	1986		1987		1988	
	Dollars	% of U.S.	Dollars	% of U.S.	Dollars	% of U.S.
	(Mil.)	(Pct.)	(Mil.)	(Pct.)	(Mil.)	(Pct.)
Wheat & Products	515.0	14.5	542.1	17.4	539.3	11.5
Feed Grains & Products	49.4	1.0	111.7	2.4	113.8	1.8
Sunflower Seed & Oil	145.3	70.5	109.1	71.1	184.0	79.6
Soybeans & Products	33.9	.6	48.8	.8	56.1	.8
Vegetables & Preparations	18.9	1.9	44.0	3.7	31.6	2.5
Dairy Products	3.5	.8	3.7	.8	3.8	.7
Animals & Meats excluding Poultry	6.9	.5	7.2	.4	7.2	.3
Hides & Skins	5.9	.4	5.9	.4	4.0	.2
Fats, Oils & Greases	2.1	.4	1.7	.4	1.3	.2
Feeds & Fodder	25.6	4.6	36.7	5.5	40.3	4.6
Seeds	11.0	3.0	11.1	3.0	12.4	3.0
Other	21.2	1.5	26.8	1.6	29.0	1.5
TOTAL	838.5	3.2	948.8	3.4	1022.9	2.9

Source: Foreign Agricultural Trade of U.S. - E.R.S. 1/ State export shares are based upon North Dakota's portion of U.S. production or farm sales of individual commodities. Refining this procedure includes using sales data from the census of agriculture, Customs District shipments, feed-livestock balances, Agricultural Marketing Service reports, and commodity market information.

GRAIN SHIPMENTS

HARD RED SPRING WHEAT AND DURUM WHEAT: Shipments from Commercial Storages by County and Mode of Shipment, North Dakota, July 1, 1987 - June 30, 1988 1/

District and County	Hard Red Wheat			Durum Wheat		
	Rail	Truck	Total	Rail	Truck	Total
	---- Bushels ----			---- Bushels ----		
7-BURKE	1,363,561	82,055	1,445,616	945,405	172,054	1,117,459
12-DIVIDE	484,581	55,843	540,424	4,304,001	6,557	4,310,558
31-MOUNTRAIL	647,798	244,209	892,007	2,928,023	658,067	3,586,090
38-RENVILLE	830,432	22,350	852,782	475,798	84,869	560,667
51-WARD	6,602,704	772,915	7,375,619	6,982,942	422,504	7,405,446
53-WILLIAMS	4,466,903	685,341	5,152,244	3,990,356	296,984	4,287,340
NORTHWEST	14,395,979	1,862,713	16,258,692	19,626,525	1,641,035	21,267,560
3-BENSON	446,617	109,382	555,999	2,044,881	515,539	2,560,420
5-BOTTINEAU	1,905,297	177,369	2,082,666	6,245,259	476,646	6,721,905
25-MCHENRY	559,716	105,544	665,260	9,900	3,985	13,885
35-PIERCE	617,892	459,301	1,077,193	1,044,747	197,259	1,242,006
40-ROLETTE	186,006	118,719	304,725	1,610,196	643,723	2,253,919
NORTH CENTRAL	3,715,528	970,315	4,685,843	10,954,983	1,837,152	12,792,135
10-CAVALIER	6,031,242	620,881	6,652,123	3,260,607	656,459	3,917,066
18-GRAND FORKS	9,350,667	3,553,442	12,904,109	1,009,759	87,468	1,097,227
32-NELSON	3,121,761	320,961	3,442,722	3,185,381	417,198	3,602,579
34-PEMBINA	9,648,927	1,696,840	11,345,767	367,515	30,458	397,973
36-RAMSEY	3,677,400	557,180	4,234,580	5,916,443	340,066	6,256,509
48-TOWNER	206,318	155,093	361,411	2,679,318	1,729,730	4,409,048
50-WALSH	12,013,611	523,789	12,537,400	933,365	11,154	944,519
NORTHEAST	44,049,926	7,428,186	51,478,112	17,352,388	3,272,533	20,624,921
13-DUNN	0	220,931	220,931	0	0	0
27-MCKENZIE	6,254	710,438	716,692	0	62,487	62,487
28-MCLEAN	2,258,405	1,149,439	3,407,844	2,325,500	662,112	2,987,612
29-MERCER	542,837	836,330	1,379,167	49,358	110,272	159,630
WEST CENTRAL	2,807,496	2,917,138	5,724,634	2,374,858	834,871	3,209,729
14-EDDY	145,225	100,200	245,425	152,864	71,205	224,069
16-FOSTER	2,758,352	123,325	2,881,677	1,153,722	13,736	1,167,458
22-KIDDER	139,517	363,577	503,094	130,342	27,028	157,370
42-SHERIDAN	292,610	458,911	751,521	8,177	44,482	52,659
47-STUTSMAN	8,283,760	1,768,310	10,052,070	3,059,515	364,329	3,423,844
52-WELLS	3,498,640	153,515	3,652,155	1,957,336	11,618	1,968,954
CENTRAL	15,118,104	2,967,838	18,085,942	6,461,956	532,398	6,994,354
2-BARNES	8,691,450	1,226,792	9,918,242	422,712	8,140	430,852
9-CASS	6,010,569	7,265,028	13,275,597	1,078,904	235,426	1,314,330
20-GRIGGS	484,469	527,674	1,012,143	255,588	5,070	260,658
46-STEELE	3,421,760	508,039	3,929,799	392,929	16,107	409,036
49-TRAIL	3,544,349	2,984,946	6,529,295	304,820	122,988	427,808
EAST CENTRAL	22,152,597	12,512,479	34,665,076	2,454,953	387,731	2,842,684
1-ADAMS	393,419	998,616	1,392,035	149,166	6,755	155,921
6-BOWMAN	3,171,506	933,739	4,105,245	2,078,176	222,550	2,300,726
17-GOLDEN VALLEY	1,080,203	765,455	1,845,658	141,710	222,087	363,797
21-HETTINGER	5,062	6,292,077	6,297,139	0	785,960	785,960
45-STARK	8,556,509	270,636	8,827,145	842,742	24,515	867,257
SOUTHWEST	13,206,699	9,260,523	22,467,222	3,211,794	1,261,867	4,473,661
8-BURLEIGH	1,899,797	810,692	2,710,489	311,311	73,859	385,170
15-EMMONS	1,294,079	1,030,163	2,324,242	35,709	10,419	46,128
19-GRANT	0	1,368,372	1,368,372	0	10,159	10,159
30-MORTON	373,386	2,609,067	2,982,453	39,332	15,226	54,558
43-SIOUX	0	218,594	218,594	0	54,386	54,386
SOUTH CENTRAL	3,567,262	6,036,888	9,604,150	386,352	164,049	550,401
11-DICKEY	2,713,529	121,927	2,835,456	468,767	883	469,650
23-LAMOURE	3,973,743	332,946	4,306,689	696,970	21,301	718,271
24-LOGAN	2,566,466	154,072	2,720,538	428,438	15,617	444,055
26-MCINTOSH	2,342,012	230,170	2,572,182	195,896	14,405	210,301
37-RANSOM	2,175,542	279,473	2,455,015	26,548	7,496	34,044
39-RICHLAND	4,312,178	1,485,375	5,797,553	1,489,860	120,350	1,610,210
41-SARGENT	3,801,581	376,241	4,177,822	1,152,748	0	1,152,748
SOUTH EAST	21,885,051	2,980,204	24,865,255	4,459,227	180,052	4,639,279
STATE	140,898,642	46,936,284	187,834,926	67,283,036	10,111,688	77,394,724

1/ Totals may not add due to rounding.
Source: Summarized by Upper Great Plains Transportation Institute from Public Service Commission records.

GRAIN SHIPMENTS CONT.

BARLEY AND OATS: Shipments from Commercial Storages
by County and Mode of Shipment, North Dakota, July 1, 1987 - June 30, 1988 1/

District and County	Barley			Oats		
	Rail	Truck	Total	Rail	Truck	Total
	---- Bushels ----			---- Bushels ----		
7-BURKE	892,241	95,713	987,954	283,846	0	283,846
12-DIVIDE	771,525	4,205	775,730	466,475	4,700	471,175
31-MOUNTRAIL	702,789	46,692	749,481	581,021	12,477	593,498
38-RENVILLE	598,750	0	598,750	173,653	0	173,653
51-WARD	3,689,405	422,330	4,111,735	1,706,260	516,812	2,223,072
53-WILLIAMS	1,081,881	128,244	1,210,125	253,270	93,655	346,925
NORTHWEST	7,736,591	697,184	8,433,775	3,464,525	627,644	4,092,169
3-BENSON	1,377,595	12,792	1,390,387	98,496	0	98,496
5-BOTTINEAU	4,134,255	21,164	4,155,419	628,146	31,163	659,309
25-MCHENRY	168,954	20,027	188,981	105,166	29,578	134,744
35-PIERCE	599,804	103,102	702,906	152,110	14,503	166,613
40-ROLETTE	941,302	345,377	1,286,679	23,343	0	23,343
NORTH CENTRAL	7,221,910	502,462	7,724,372	1,007,261	75,244	1,082,505
10-CAVALIER	7,300,866	3,094,389	10,395,255	52,085	7,601	59,686
18-GRAND FORKS	5,892,493	1,227,849	7,120,342	42,885	11,937	54,822
32-NELSON	2,215,763	520,376	2,736,139	18,079	26,357	44,436
34-PEMBINA	3,277,068	1,348,506	4,625,574	21,593	10,340	31,933
36-RAMSEY	3,200,238	739,199	3,939,437	81,197	3,199	84,396
48-TOWNER	1,521,275	737,334	2,258,609	4,692	12,394	17,086
50-WALSH	5,072,343	499,772	5,572,115	75,819	13,136	88,955
NORTHEAST	28,480,046	8,167,425	36,647,471	296,350	84,964	381,314
13-DUNN	0	1,067	1,067	0	14,624	14,624
27-MCKENZIE	0	9,473	9,473	0	132,584	132,584
28-MCLEAN	479,602	111,717	591,319	1,379,498	51,070	1,430,568
29-MERCER	29,596	4,489	34,085	316,271	42,459	358,730
WEST CENTRAL	509,198	126,746	635,944	1,695,769	240,737	1,936,506
14-EDDY	131,271	94,124	225,395	174,930	1,583	176,513
16-FOSTER	617,980	101,363	719,343	396,626	13,204	409,830
22-KIDDER	52,899	58,765	111,664	99,356	22,008	121,364
42-SHERIDAN	53,042	38,535	91,577	109,762	1,620	111,382
47-STUTSMAN	3,904,742	1,817,237	5,721,979	822,471	13,088	835,559
52-WELLS	1,913,846	493,815	2,407,661	448,356	2,927	451,283
CENTRAL	6,673,780	2,603,839	9,277,619	2,051,501	54,430	2,105,931
2-BARNES	3,807,554	1,814,983	5,622,537	242,749	5,200	247,949
9-CASS	10,112,078	1,853,480	11,965,558	209,419	18,061	227,480
20-GRIGGS	1,781,170	864,152	2,645,322	8,957	4,205	13,162
46-STEELE	2,370,078	439,762	2,809,840	183,390	53,888	237,278
49-TRAIL	6,372,121	1,670,250	8,042,371	0	2,768	2,768
EAST CENTRAL	24,443,001	6,642,627	31,085,628	644,515	84,122	728,637
1-ADAMS	96,064	23,127	119,191	109,311	18,693	128,004
6-BOWMAN	384,988	199,602	584,590	16,938	99,172	116,110
17-GOLDEN VALLEY	91,070	28,525	119,595	54,293	12,277	66,570
21-HETTINGER	0	599,042	599,042	0	171,188	171,188
45-STARK	139,248	34,185	173,433	913,979	47,355	961,334
SOUTHWEST	711,370	884,481	1,595,851	1,094,521	348,685	1,443,206
8-BURLEIGH	163,542	40,626	204,168	753,596	44,049	797,645
15-EMMONS	188,412	29,120	217,532	371,864	13,789	385,653
19-GRANT	0	24,559	24,559	0	71,414	71,414
30-MORTON	35,840	38,034	73,874	102,065	53,088	155,153
43-SIOUX	0	896	896	0	3,150	3,150
SOUTH CENTRAL	387,794	133,235	521,029	1,227,525	185,490	1,413,015
11-DICKEY	1,621,338	2,256	1,623,594	574,146	3,035	577,181
23-LAMOURE	1,314,829	414,818	1,729,647	495,120	55,758	550,878
24-LOGAN	246,200	26,609	272,809	189,106	4,790	193,896
26-MCINTOSH	139,854	46,921	186,775	300,089	58,428	358,517
37-RANSOM	653,863	142,428	796,291	152,627	11,823	164,450
39-RICHLAND	1,630,520	385,993	2,016,513	160,365	107,744	268,109
41-SARGENT	1,777,361	74,017	1,851,378	261,923	18,529	280,452
SOUTH EAST	7,383,965	1,093,042	8,477,007	2,133,376	260,107	2,393,483
STATE	83,547,655	20,851,041	104,398,696	13,615,343	1,961,423	15,576,766

1/ Totals may not add due to rounding.
Source: Summarized by Upper Great Plains Transportation Institute from Public Service Commission records.

GRAIN SHIPMENTS CONT.

SUNFLOWER, FLAXSEED AND CORN: Shipments from Commercial Storages
by County and Mode of Shipment, North Dakota, July 1, 1987 - June 30, 1988 1/

District and County	Sunflowers			Flax			Corn		
	Rail	Truck	Total	Rail	Truck	Total	Rail	Truck	Total
	---- Hundredweight ----			---- Bushels ----			---- Bushels ----		
7-BURKE	69,833	482	70,315	25,696	12,522	38,218	0	0	0
12-DIVIDE	45,700	0	45,700	31,451	7,812	39,263	0	0	0
31-MOUNTRAIL	163,655	26,674	190,329	48,590	4,334	52,924	0	0	0
38-RENVILLE	32,000	8,867	40,867	120,100	33,635	153,735	0	0	0
51-WARD	1,575,141	71,978	1,647,119	445,585	261,539	707,124	0	8,396	8,396
53-WILLIAMS	25,803	26,529	52,332	6,000	11,230	17,230	0	5,224	5,224
NORTHWEST	1,912,132	134,530	2,046,662	677,422	331,072	1,008,494	0	13,620	13,620
3-BENSON	159,998	126,950	286,948	76,318	43,996	120,314	14,284	4,318	18,602
5-BOTTINEAU	226,166	111,751	337,917	200,979	186,302	387,281	0	0	0
25-MCHENRY	257,943	46,628	304,571	16,406	70,461	86,867	0	0	0
35-PIERCE	211,492	65,982	277,474	12,216	131,763	143,979	0	0	0
40-ROLETTE	97,077	141,155	238,232	65,059	55,759	120,818	7,530	0	7,530
NORTH CENTRAL	952,676	492,466	1,445,142	370,978	488,281	859,259	21,814	4,318	26,132
10-CAVALIER	17,267	59,614	76,881	100,624	205,891	306,515	0	14,701	14,701
18-GRAND FORKS	112,336	274,973	387,309	1,688	52,318	54,006	91,104	421,554	512,658
32-NELSON	256,194	204,644	460,838	115,194	43,857	159,051	3,571	889	4,460
34-PEMBINA	0	9,556	9,556	27,825	90,799	118,624	1,983	107,062	109,045
36-RAMSEY	616,264	162,745	779,009	294,042	129,616	423,658	17,614	0	17,614
48-TOWNER	251,632	128,004	379,636	159,327	71,985	231,312	0	0	0
50-WALSH	913,809	159,388	1,073,189	204,781	49,671	254,452	36,146	224,927	261,073
NORTHEAST	2,167,502	998,916	3,166,418	903,481	644,137	1,547,618	150,418	769,133	919,551
13-DUNN	0	6,842	6,842	0	0	0	0	0	0
27-MCKENZIE	0	0	0	0	0	0	0	0	0
28-MCLEAN	495,130	301,954	797,084	127,538	298,088	425,626	14,280	111,907	126,187
29-MERCER	0	41,081	41,081	0	26,366	26,366	0	1,268	1,268
WEST CENTRAL	495,130	349,877	845,007	127,538	324,454	451,992	14,280	113,175	127,455
14-EDDY	199,762	141,237	340,999	0	58,779	58,779	45,675	33,588	79,263
16-FOSTER	559,792	295,690	855,482	35,126	43,434	78,560	146,442	5,520	151,962
22-KIDDER	3,773	45,068	48,841	2,395	31,079	33,474	0	15,228	15,228
42-SHERIDAN	51,922	18,991	70,913	34,043	80,840	114,883	0	0	0
47-STUTSMAN	230,502	650,857	881,359	20,117	275,675	295,792	120,793	58,119	178,912
52-WELLS	841,001	163,078	1,004,079	145,224	110,016	255,240	77,213	79,136	156,349
CENTRAL	1,886,752	1,314,921	3,201,673	236,905	599,823	836,728	390,123	191,591	581,714
2-BARNES	35,590	568,452	604,042	868	128,296	129,164	7,023	8,801	15,824
9-CASS	91,839	1,081,701	1,173,540	1,354	73,601	74,955	5,213,273	627,841	5,841,114
20-GRIGGS	5,350	394,283	399,633	0	63,206	63,206	0	14,778	14,778
46-STEELE	46,507	202,064	248,571	12,961	94,794	107,755	34,430	61,725	96,155
49-TRAIL	79,256	117,855	197,111	37,687	22,736	60,423	2,393,581	265,045	2,658,626
EAST CENTRAL	258,542	2,364,355	2,622,897	52,870	382,633	435,503	7,648,307	978,190	8,626,497
1-ADAMS	2,963	12,822	15,785	0	0	0	0	0	0
6-BOWMAN	56,337	26,148	82,485	56,251	33,904	90,155	0	0	0
17-GOLDEN VALLEY	0	2,050	2,050	0	0	0	0	0	0
21-HETTINGER	0	357,793	357,793	0	16,366	16,366	0	7,152	7,152
45-STARK	110,064	86,424	196,488	0	24,438	24,438	0	2,543	2,543
SOUTHWEST	169,364	485,237	654,601	56,251	74,708	130,959	0	9,695	9,695
8-BURLEIGH	119,453	100,359	219,812	24,751	122,577	147,328	0	43,602	43,602
15-EMMONS	45,000	115,467	160,467	84,099	62,120	146,219	0	0	0
19-GRANT	0	98,101	98,101	0	3,130	3,130	0	69,548	69,548
30-MORTON	59,062	131,157	190,219	0	29,289	29,289	0	299	299
43-SIOUX	0	0	0	0	0	0	0	946	946
SOUTH CENTRAL	223,515	445,084	668,599	108,850	217,116	325,966	0	114,395	114,395
11-DICKEY	110,469	415,001	525,470	25,054	36,073	61,127	2,759,459	23,393	2,782,852
23-LAMOURE	53,862	1,001,140	1,055,002	15,346	126,925	142,271	554,662	141,923	696,585
24-LOGAN	87,404	172,159	259,563	96,146	67,676	163,822	0	3,738	3,738
26-MCINTOSH	53,579	72,155	125,734	38,740	42,925	81,665	0	0	0
37-RANSOM	64,194	294,597	358,791	0	4,858	4,858	775,577	354,982	1,130,559
39-RICHLAND	27,850	379,787	407,637	9,625	17,190	26,815	8,146,619	993,658	9,140,277
41-SARGENT	28,391	345,496	373,887	4,087	28,342	32,429	6,109,462	143,056	6,252,518
SOUTH EAST	425,749	2,680,335	3,106,084	188,998	323,989	512,987	18,345,779	1,660,750	20,006,529
STATE	8,491,362	9,265,721	17,757,083	2,723,293	3,386,213	6,109,506	26,570,721	3,854,867	30,425,588

1/ Totals may not add due to rounding.
Source: Summarized by Upper Great Plains Transportation Institute from Public Service Commission records.

June 1989

GRAIN SHIPMENTS CONT.

HARD RED SPRING WHEAT AND DURUM WHEAT: Shipments from Commercial Storages by County and Destination, North Dakota, July 1, 1987 - June 30, 1988 1/

District and County	Hard Red Spring Wheat				Durum Wheat			
	Duluth/ Superior	Mpls/ St. Paul	West	Misc. 2/	Duluth/ Superior	Mpls./ St. Paul	West	Misc. 2/
	---- Bushels ----				---- Bushels ----			
7-BURKE	182,661	137,217	655,786	469,952	486,007	214,605	82,329	334,518
12-DIVIDE	30,258	57,351	227,799	225,016	797,785	585,253	306,179	2,621,341
31-MOUNTRAIL	244,164	195,074	163,059	289,710	1,636,092	765,235	23,144	1,161,619
38-RENVILLE	26,433	334,583	412,500	79,266	13,200	422,865	0	124,602
51-WARD	443,716	1,545,098	3,927,268	1,459,537	2,204,633	1,830,711	207,048	3,163,054
53-WILLIAMS	9,202	351,325	4,270,259	521,458	278,915	316,797	391,056	3,300,572
NORTHWEST	936,434	2,620,648	9,656,671	3,044,939	5,416,632	4,135,466	1,009,756	10,705,706
3-BENSON	77,551	27,494	3,333	447,621	771,598	641,364	3,166	1,144,292
5-BOTTINEAU	370,667	128,813	786,289	796,897	3,080,070	356,842	0	3,284,993
25-MCHENRY	30,160	329,509	116,906	188,685	3,300	0	0	10,585
35-PIERCE	625,535	402,902	0	48,756	557,577	487,786	0	196,643
40-ROLETTE	160,755	64,454	0	79,516	1,052,886	310,826	0	890,207
NORTH CENTRAL	1,264,668	953,172	906,528	1,561,475	5,465,431	1,796,818	3,166	5,526,720
10-CAVALIER	2,116,712	1,838,446	826	2,696,139	1,826,039	997,773	6,600	1,086,654
18-GRAND FORKS	3,591,291	3,640,381	374	5,672,063	495,124	100,872	0	501,231
32-NELSON	1,154,379	1,046,447	0	1,241,896	1,390,857	1,047,727	0	1,163,995
34-PEMBINA	4,406,661	1,685,264	0	5,253,842	60,037	9,946	0	327,990
36-RAMSEY	1,011,557	865,822	3,300	2,353,901	3,481,064	384,409	0	2,391,036
48-TOWNER	25,856	127,013	0	208,542	1,430,291	226,813	19,580	2,732,364
50-WALSH	2,821,632	4,998,703	6,425	4,710,640	325,521	492,198	0	126,800
NORTHEAST	15,128,088	14,202,076	10,925	22,137,023	9,008,933	3,259,738	26,180	8,330,070
13-DUNN	13,577	153,390	18,068	35,896	0	0	0	0
27-MCKENZIE	0	1,652	15,812	699,228	0	51,411	0	11,076
28-MCLEAN	460,243	865,003	807,059	1,275,539	1,532,103	605,813	0	849,696
29-MERCER	224,051	797,218	89,322	268,576	72,315	44,104	0	43,211
WEST CENTRAL	697,871	1,817,263	930,261	2,279,239	1,604,418	701,328	0	903,983
14-EDDY	78,965	83,883	648	81,929	81,379	27,366	0	115,324
16-FOSTER	655,807	1,348,720	197,557	679,593	293,754	732,503	0	141,201
22-KIDDER	32,192	361,287	0	109,615	50,337	86,226	0	20,807
42-SHERIDAN	22,117	623,346	0	106,058	24,853	5,000	0	22,806
47-STUTSMAN	1,677,688	1,969,186	87,301	6,317,895	1,125,661	595,154	37,839	1,665,190
52-WELLS	735,297	1,135,406	515,170	1,266,282	876,955	356,723	0	735,276
CENTRAL	3,202,066	5,521,828	800,676	8,561,372	2,452,939	1,802,972	37,839	2,700,604
2-BARNES	2,547,424	4,447,675	886	2,922,257	274,762	124,268	0	31,822
9-CASS	2,534,054	7,189,930	0	3,551,613	552,470	380,864	86,830	294,166
20-GRIGGS	271,566	431,042	0	309,535	35,605	75,703	0	149,350
46-STEELE	1,207,860	1,045,143	0	1,676,796	197,702	167,510	0	43,824
49-TRAIL	2,620,298	2,411,675	6,539	1,490,783	90,541	218,643	0	118,624
EAST CENTRAL	9,181,202	15,525,465	7,425	9,950,984	1,151,080	966,988	86,830	637,786
1-ADAMS	29,221	295,608	525,457	541,749	49,830	77,686	0	28,405
6-BOWMAN	259,498	83,764	1,435,377	2,326,606	489,262	449,172	19,800	1,342,492
17-GOLDEN VALLEY	0	99,455	803,927	942,276	0	156,105	0	207,692
21-HETTINGER	937,966	2,392,102	889,394	2,077,677	313,831	94,460	0	377,669
45-STARK	519,177	537,275	6,892,711	877,982	98,949	115,618	0	652,690
SOUTHWEST	1,745,862	3,408,204	10,546,866	6,766,290	951,872	893,041	19,800	2,608,948
8-BURLEIGH	241,437	2,080,133	54,789	334,130	119,361	218,584	0	47,225
15-EMMONS	220,689	974,335	0	1,129,218	9,750	9,709	0	26,669
19-GRANT	3,302	445,620	199,781	719,669	5,987	4,172	0	0
30-MORTON	50,736	2,259,754	367,711	304,252	28,591	16,006	0	9,961
43-SIOUX	0	5,211	5,104	208,279	0	0	0	54,386
SOUTH CENTRAL	516,164	5,765,053	627,385	2,695,548	163,689	248,471	0	138,241
11-DICKEY	341,136	1,200,589	0	1,293,731	149,590	164,018	0	156,042
23-LAMOURE	1,070,664	1,832,339	10,016	1,393,670	217,375	339,219	0	161,677
24-LOGAN	157,276	961,410	0	1,601,852	148,157	162,640	0	133,258
26-MCINTOSH	99,458	1,585,495	23,000	864,229	75,300	110,166	0	24,835
37-RANSOM	637,258	1,433,125	0	384,632	16,893	13,841	0	3,310
39-RICHLAND	995,951	3,497,918	0	1,303,684	981,690	484,600	0	143,920
41-SARGENT	781,002	2,138,235	29,250	1,229,335	410,171	268,049	0	474,528
SOUTH EAST	4,082,745	12,649,111	62,266	8,071,133	1,999,176	1,542,533	0	1,097,570
STATE	36,755,100	62,462,820	23,549,003	65,068,003	28,214,170	15,347,355	1,183,571	32,649,628

1/ Totals may not add due to rounding. 2/ Includes all other destinations.
Source: Summarized by Upper Great Plains Transportation Institute from Public Service Commission records.

June 1989

GRAIN SHIPMENTS CONT.

BARLEY AND OATS: Shipments from Commercial Storages
by County and Destination, North Dakota, July 1, 1987 - June 30, 1988 1/

District and County	Barley				Oats			
	Duluth/ Superior	Mpls/ St. Paul	West	Misc. 2/	Duluth/ Superior	Mpls./ St. Paul	West	Misc. 2/
	---- Bushels ----				---- Bushels ----			
7-BURKE	4,727	34,348	205,654	743,225	0	139,931	0	143,915
12-DIVIDE	20,075	0	271,969	483,686	0	159,142	0	312,033
31-MOUNTRAIL	43,198	38,861	117,377	550,045	4,821	285,125	0	303,552
38-RENVILLE	0	3,750	257,250	337,750	0	163,979	0	9,674
51-WARD	66,491	284,207	1,471,049	2,289,988	0	989,541	0	1,233,531
53-WILLIAMS	1,070	66,629	224,939	917,487	0	178,881	48,309	119,735
NORTHWEST	135,561	427,795	2,548,238	5,322,181	4,821	1,916,599	48,309	2,122,440
3-BENSON	140,143	227,713	85,922	936,609	0	67,568	0	30,928
5-BOTTINEAU	124,061	243,096	1,330,188	2,458,074	0	224,191	0	435,118
25-MCHENRY	7,132	37,600	97,500	46,749	0	87,353	0	47,391
35-PIERCE	14,266	163,162	135,706	389,772	0	105,862	0	60,751
40-ROLETTE	156,939	306,495	172,500	650,745	0	0	0	23,343
NORTH CENTRAL	442,541	978,066	1,821,816	4,481,949	0	484,974	0	597,531
10-CAVALIER	2,928,466	2,552,236	86,250	4,828,303	1,106	19,795	0	38,785
18-GRAND FORKS	1,500,428	3,536,189	0	2,083,725	0	25,401	280	29,141
32-NELSON	509,103	1,204,956	17,632	1,004,448	0	10,809	0	33,627
34-PEMBINA	1,528,770	672,792	0	2,424,012	0	14,340	0	17,593
36-RAMSEY	972,970	1,127,440	245,606	1,593,421	0	35,537	0	48,859
48-TOWNER	98,571	384,843	316,006	1,459,189	0	6,254	0	10,832
50-WALSH	1,159,457	2,401,691	40,793	1,970,174	0	23,174	0	65,781
NORTHEAST	8,697,765	11,880,147	706,287	15,363,272	1,106	135,310	280	244,618
13-DUNN	0	0	0	1,067	0	13,036	0	1,588
27-MCKENZIE	0	1,041	5,442	2,990	0	124,281	6,748	1,555
28-MCLEAN	12,252	61,154	62,214	455,699	0	814,281	16,202	600,085
29-MERCER	0	0	20,446	13,639	0	196,358	19,065	143,307
WEST CENTRAL	12,252	62,195	88,102	473,395	0	1,147,956	42,015	746,535
14-EDDY	21,497	33,246	61,440	109,212	0	67,919	0	108,594
16-FOSTER	275,903	108,166	-0	335,274	0	136,803	0	273,027
22-KIDDER	9,972	7,407	0	94,285	0	43,961	0	77,403
42-SHERIDAN	7,110	25,635	18,685	40,147	0	91,311	0	20,071
47-STUTSMAN	1,120,660	170,294	72,491	4,358,534	0	534,828	0	300,731
52-WELLS	243,475	30,194	111,431	2,022,561	4,500	147,833	0	298,950
CENTRAL	1,678,617	374,942	264,047	6,960,013	4,500	1,022,655	0	1,078,776
2-BARNES	934,440	2,082,365	55,991	2,549,741	4,613	134,813	0	108,523
9-CASS	797,404	3,335,190	24,281	7,808,683	0	124,598	0	102,882
20-GRIGGS	159,736	584,531	2,000	1,899,055	0	4,687	0	8,475
46-STEELE	584,044	1,286,053	0	939,743	5,428	37,523	0	194,327
49-TRAIL	767,095	1,642,994	0	5,632,282	0	1,601	0	1,167
EAST CENTRAL	3,242,719	8,931,133	82,272	18,829,504	10,041	303,222	0	415,374
1-ADAMS	0	7,630	13,727	97,834	0	57,113	0	70,891
6-BOWMAN	97,417	52,367	3,660	431,146	0	105,369	0	10,741
17-GOLDEN VALLEY	0	0	0	119,595	0	45,260	0	21,310
21-HETTINGER	2,195	169,897	25,958	400,992	0	160,383	0	10,805
45-STARK	0	3,698	8,987	160,748	0	834,231	0	127,103
SOUTHWEST	99,612	233,592	52,332	1,210,315	0	1,202,356	0	240,850
8-BURLEIGH	24,692	25,814	3,749	149,913	0	373,228	5,721	418,696
15-EMMONS	30,655	87,890	7,466	91,521	0	226,735	0	158,918
19-GRANT	14,780	0	0	9,779	0	55,342	0	16,072
30-MORTON	923	16,854	34,595	21,502	0	77,083	0	78,070
43-SIOUX	0	0	896	0	0	0	0	3,150
SOUTH CENTRAL	71,050	130,558	46,706	272,715	0	732,388	5,721	674,906
11-DICKEY	524,842	687,943	0	410,809	0	269,492	0	307,689
23-LAMOURE	239,920	843,251	0	646,476	0	251,253	0	299,625
24-LOGAN	24,627	127,695	0	120,487	4,586	119,981	0	69,329
26-MCINTOSH	55,662	23,923	11,250	95,940	0	253,885	0	104,632
37-RANSOM	96,403	499,180	0	200,708	0	87,014	0	77,436
39-RICHLAND	400,362	1,055,024	0	561,127	0	171,426	0	96,683
41-SARGENT	390,396	974,419	3,503	483,060	0	173,464	0	106,988
SOUTH EAST	1,732,212	4,211,435	14,753	2,518,607	4,586	1,326,515	0	1,062,382
STATE	16,112,329	27,229,863	5,624,553	55,431,951	25,054	8,271,975	96,325	7,183,412

1/ Totals may not add due to rounding. 2/ Includes all other destinations.
Source: Summarized by Upper Great Plains Transportation Institute from Public Service Commission records.
June 1989

GRAIN SHIPMENTS CONT.

SUNFLOWER AND FLAXSEED: Shipments from Commercial Storages
by County and Destination, North Dakota, July 1, 1987 - June 30, 1988 1/

District and County	Sunflower				Flax			
	Duluth/ Superior	Mpls/ St. Paul	West	Misc. 2/	Duluth/ Superior	Mpls./ St. Paul	West	Misc. 2/
	---- Hundredweight ----				---- Bushels ----			
7-BURKE	0	0	0	70,315	0	0	0	38,218
12-DIVIDE	0	0	0	45,700	0	0	3,616	35,647
31-MOUNTRAIL	9,501	0	0	180,828	0	19,126	2,590	31,208
38-RENVILLE	0	0	0	40,867	0	80,000	0	73,735
51-WARD	271,861	306,830	953	1,067,475	0	111,793	46,028	549,303
53-WILLIAMS	0	1,100	5,729	45,503	0	0	0	17,230
NORTHWEST	281,362	307,930	6,682	1,450,688	0	210,919	52,234	745,341
3-BENSON	43,595	1,470	0	241,883	0	43,926	15,418	60,970
5-BOTTINEAU	46,510	3,201	0	288,206	0	95,863	31,260	260,158
25-MCHENRY	0	176,099	0	130,472	0	18,652	17,031	51,184
35-PIERCE	3,420	27,300	0	246,754	0	89,202	922	53,855
40-ROLETTE	31,800	4,006	504	201,922	0	20,493	7,347	97,978
NORTH CENTRAL	125,325	210,076	504	1,109,237	0	268,136	71,978	519,145
10-CAVALIER	9,109	4,426	0	63,346	2,732	62,371	90,224	151,188
18-GRAND FORKS	147,241	4,421	1,658	233,989	0	8,913	3,848	41,245
32-NELSON	16,854	55,790	0	388,194	0	28,718	0	130,333
34-PEMBINA	0	0	0	9,556	6,225	40,301	5,731	66,367
36-RAMSEY	293,111	12,697	450	472,751	0	90,606	32,873	300,179
48-TOWNER	200,921	0	0	178,715	0	34,822	25,380	171,110
50-WALSH	580,304	6,649	0	486,236	0	2,772	4,272	247,408
NORTHEAST	1,247,540	83,983	2,108	1,832,787	8,957	268,503	162,328	1,107,830
13-DUNN	0	0	0	6,842	0	0	0	0
27-MCKENZIE	0	0	0	0	0	0	0	0
28-MCLEAN	50,490	5,000	0	741,594	0	101,447	31,988	292,191
29-MERCER	0	20,855	0	20,226	0	22,403	919	3,044
WEST CENTRAL	50,490	25,855	0	768,662	0	123,850	32,907	295,235
14-EDDY	20,900	483	0	319,616	0	2,738	13,049	42,992
16-FOSTER	50,198	189,847	0	615,437	948	33,156	13,085	31,371
22-KIDDER	0	0	0	48,841	0	8,677	2,203	22,514
42-SHERIDAN	0	0	0	70,913	0	0	23,252	91,631
47-STUTSMAN	3,513	20,600	26,010	831,236	0	40,559	16,772	238,461
52-WELLS	157,026	4,192	27,850	815,011	0	0	53,418	201,822
CENTRAL	231,637	215,122	53,860	2,701,054	948	85,130	121,859	628,791
2-BARNES	19,487	25,000	0	559,555	0	0	31,893	97,271
9-CASS	0	55,929	1,200	1,116,411	0	2,641	13,484	58,830
20-GRIGGS	7,038	495	0	392,100	0	7,786	19,056	36,364
46-STEELE	1,453	1,000	0	246,118	0	0	50,299	57,456
49-TRAIL	0	0	399	196,712	0	0	2,126	58,297
EAST CENTRAL	27,978	82,424	1,599	2,510,...	0	10,427	116,858	308,218
1-ADAMS	1,000	450	0	14,335	0	0	0	0
6-BOWMAN	0	73,460	0	9,025	0	76,101	876	13,178
17-GOLDEN VALLEY	0	0	0	2,050	0	0	0	0
21-HETTINGER	65,591	29,519	0	262,683	0	9,337	0	7,029
45-STARK	1,000	0	2,080	193,408	0	3,677	0	20,761
SOUTHWEST	67,591	103,429	2,080	481,501	0	89,115	876	40,968
8-BURLEIGH	17,520	23,193	0	179,099	0	17,403	5,535	124,390
15-EMMONS	0	0	0	160,467	0	32,842	3,615	109,762
19-GRANT	0	0	0	98,101	0	0	1,924	1,206
30-MORTON	0	0	0	190,219	0	912	0	28,377
43-SIOUX	0	0	0	0	0	0	0	0
SOUTH CENTRAL	17,520	23,193	0	627,886	0	51,157	11,074	263,735
11-DICKEY	27,300	56,482	0	441,688	0	1,369	1,689	58,069
23-LAMOURE	15,957	11,076	4,150	1,023,819	0	12,124	42,273	87,874
24-LOGAN	20,207	3,659	0	235,697	0	46,836	14,296	102,690
26-MCINTOSH	22,750	5,220	0	97,764	900	28,907	5,523	46,335
37-RANSOM	0	0	0	358,791	0	1,605	913	2,340
39-RICHLAND	454	10,915	1,672	394,596	6,225	1,750	4,300	14,540
41-SARGENT	0	4,274	0	369,613	0	1,718	0	30,711
SOUTH EAST	86,668	91,626	5,822	2,921,968	7,125	94,309	68,994	342,559
STATE	2,136,111	1,143,638	72,655	14,404,679	17,030	1,201,546	639,108	4,251,822

1/ Totals may not add due to rounding. 2/ Includes all other destinations.
Source: Summarized by Upper Great Plains Transportation Institute from Public Service Commission records.

June 1989

CUSTOM FARM WORK RATES

STATE-WIDE AVERAGES, NORTH DAKOTA, 1986 WITH COMPARISONS

Operation	Average Rate 1980	1982	1984	1986 Most Frequent Rate Reported	1986 Avg. Rate
LAND TILLAGE					
DEEP TILLAGE	- - - Dollars/Acre - - -				
Plowing (Moldboard)	6.14	6.11	6.18	6.00	6.25
Alfalfa Sod Breaking	7.94	7.52	7.60	8.00	7.82
Heavy Disking	4.31	4.55	5.10	5.00	5.21
Deep Chisel	4.40	4.59	5.03	5.00	4.96
SHALLOW TILLAGE					
Field Cult. (Duckfoot)	3.14	3.52	3.81	3.00	3.63
One-Way Disk	3.87	3.76	4.15	5.00	4.01
Tandem Disk	3.76	3.88	4.15	4.00	4.24
Multiple Hitch Cult.	NA	NA	NA	4.00	4.27
Rotary Hoe	2.59	2.92	2.98	3.00	3.15
Harrowing	1.99	2.26	2.45	2.00	2.29
Row Crop Cultivation					
Wide-Row (> 31 in.)	3.23	3.39	3.53	4.00	3.61
Narrow-Row (< 31 in.)	3.36	3.48	3.72	3.00	3.56
SMALL GRAIN SEEDING					
REGULAR DRILLING					
With Fertilizer Appl.	4.42	4.68	4.54	5.00	4.78
Without Fertilizer Appl.	3.87	4.14	4.40	5.00	4.44
PONY PRESS DRILL					
With Fertilizer Appl.	7.64	6.89	7.10	8.00	7.89
Without Fertilizer Appl.	6.77	6.33	7.07	6.00	7.69
ROW CROP PLANTING					
Corn	4.15	4.77	*4.72	5.00	*5.00
Soybeans	3.94	4.68	*4.84	5.00	*4.95
Dry Edible Beans	4.17	4.62	*4.99	5.00	*4.90
Sunflower	4.35	4.77	*4.88	5.00	*5.04
Potatoes	7.24	5.91	7.09	4.00	6.10
Sugarbeets	5.33	5.95	6.80	5.00	5.44
FERTILIZER APPLICATION					
Dry Fertilizer	2.14	2.58	*2.74	2.00	*2.56
Liquid Fertilizer	2.52	3.08	3.23	2.50	3.10
Anhydrous Ammonia	3.68	3.82	*4.55	5.00	*4.64
CHEMICAL APPLICATION					
BY SURFACE VEHICLES					
Herbicides	1.86	2.08	*2.44	2.00	*2.37
Insecticides	2.14	2.11	*2.49	2.00	*2.54
Fungicides	2.21	2.14	2.44	2.50	2.50
Desiccants	2.31	2.13	2.34	2.50	2.47
BY AIRCRAFT					
Herbicides	2.55	3.02	3.04	3.00	2.96
Insecticides	2.67	3.10	3.14	3.00	3.03
Fungicides	2.82	3.21	3.23	3.00	3.17
Desiccants	2.88	3.24	3.24	3.00	3.20
HARVESTING CROPS					
SWATHING					
Self-Propelled	3.12	3.55	3.73	3.00	3.67
PTO Unit	2.93	3.16	3.36	3.00	3.39
COMBINING FROM SWATHS					
Wheat, All	11.02	12.67	12.59	12.00	11.64
Barley	11.09	12.67	12.62	12.00	11.61
Flaxseed	11.25	12.85	12.56	12.00	11.78
Soybeans	11.96	14.31	14.17	12.00	13.41
Dry Edible Beans(/cwt.)	13.66	15.91	15.04	15.00	14.65
COMBINING, STRAIGHT					
Wheat, All	NA	12.76	12.57	12.00	11.71
Corn	13.01	15.10	14.83	15.00	14.46
Sunflower (per cwt.)	12.12	13.52	13.26	12.00	12.54
Soybeans	NA	14.46	14.17	15.00	14.08
DRY BEAN HARVESTING					
Cutting Only	NA	7.66	7.34	5.00	7.88
Windrowing	NA	4.70	4.77	3.00	4.32
Cutting & Windrowing	NA	12.84	13.00	10.00	12.06
HAYING					
Mowing	3.15	3.43	3.28	3.00	3.49
Mowing & Conditioning	4.47	5.29	5.10	5.00	5.28
Swathing	3.87	4.57	4.26	4.00	4.11
Side Delivery Raking	2.13	2.28	2.04	2.00	2.28
BALING	- - - Dollars/Bale - - -				
Square bales with twine	.265	.280	.340	.250	.340
Round bales 800-999 lbs.	4.46	4.51	4.49	4.00	4.24
Round bales 1000-1500 lbs.	5.06	5.12	5.06	5.00	4.91
Round bales over 1500 lbs.	5.96	5.81	5.54	5.00	5.40

Operation	Average Rate 1980	1982	1984	1986 Most Frequent Rate Reported	1986 Avg. Rate
HAYING CONT.					
MECHANIZED LOOSE HAY STACKING	- - - Dollars/Stack - - -				
1.5 - 3 Ton Stack	17.59	17.21	18.32	15.00	18.14
3 - 6 Ton Stack	25.10	21.81	25.50	25.00	24.92
More than 6 Ton Stack	NA	23.25	26.32	25.00	28.32
MAKING CORN SILAGE					
FIELD CHOPPING ONLY	- - - Dollars/Unit - - -				
Per Acre	13.59	15.76	16.41	15.00	16.06
Per Hour	30.06	35.46	43.50	40.00	44.83
FIELD CHOPPING PLUS HAULING TO SILO					
Per Acre	16.55	18.42	21.22	20.00	19.54
Per Hour	41.77	48.94	44.57	40.00	44.83
FIELD CHOPPING PLUS HAULING TO AND FILLING SILO					
Per Acre	18.32	21.60	22.37	20.00	19.54
Per Hour	43.00	51.22	59.64	NA	46.27
DRYING GRAIN					
	- - - Cents/Bushel - - -				
Wheat, All	16.2	15.0	15.1	10.0	16.2
Barley	15.2	15.3	15.3	10.0	16.2
Corn	18.0	18.1	17.6	10.0	18.6
Flax	NA	17.2	17.2	15.0	13.0
Sunflower (per cwt.)	27.3	28.6	30.9	20.0	14.6
HAULING CHARGES					
HAULING GRAIN					
Wheat, All	10.8	10.7	9.5	10.0	9.6
Barley	10.1	10.1	9.1	10.0	9.3
Flax	NA	11.0	9.6	10.0	8.8
Corn	NA	10.7	9.1	10.0	8.6
Sunflower (per cwt.)	14.9	17.0	16.5	10.0	16.8
HAULING HAY	- - - Dollars/Bale - - -				
Small Square Bales	.184	.182	.166	.100	.156
Large Round Bales					
800-999 lbs.	1.73	1.50	2.38	1.00	1.91
1000-1500 lbs.	3.11	2.00	2.72	1.00	2.51
Over 1500 lbs.	4.25	2.20	2.50	1.00	1.92
MOVING LOOSE HAYSTACKS	- - - Dollars/Stack - - -				
1.5 - 3 Ton	9.52	10.10	11.18	7.00	10.08
3 - 6 Ton	13.29	12.24	11.97	10.00	9.77
More Than 6 Ton	13.19	12.71	12.44	10.00	12.79
CLEANING & TREATING					
SEED GRAIN	- - - Dollars/Bushel - - -				
Cleaning Only	.221	.254	.275	.250	.277
Treating Only	.263	.318	.404	.500	.393
Cleaning & Treating	.457	.542	.678	.500	.643
FLAXSEED					
Cleaning Only	.409	.426	.438	.500	.455
Treating Only	.313	.381	.400	.500	.425
Cleaning & Treating	.719	.766	.773	.850	.852
MISCELLANEOUS					
CUSTOM FARMING	- - - Dollars/Acre - - -				
Small Grains	NA	NA	NA	40.00	34.44
Row Crops	NA	NA	NA	40.00	42.09
SPRAYING LIVESTOCK	- - - Dollars/Head - - -				
Cattle	.55	.71	1.10	1.00	1.00
BRANDING LIVESTOCK					
Calves	1.15	1.15	1.13	NA	1.20
SHEARING SHEEP	1.34	1.38	1.39	1.50	1.53
DIGGING POST HOLES ($/Hole)	1.14	1.42	1.65	2.00	1.96
Average Depth (Feet)	3.1	3.4	3.0	4.0	3.5
ON-FARM FEED GRINDING & MIXING	- - - Dollars/100 bu. - - -				
Mobile Truck	12.03	15.08	23.68	NA	23.57
PTO Unit	11.35	13.15	16.08	NA	15.37
	- - - Dollars/Hour - - -				
Farm Drainage/Ditching	43.24	50.54	56.80	50.00	54.48
Land Leveling	42.67	51.55	55.21	50.00	51.17
Rock Picking	22.34	37.02	35.69	30.00	35.34

* Combined average of all types listed separtely in detailed report, i.e. with fertilizer, without fertilizer, minimum till, etc.

NEW DATA AVAILABLE, EARLY SEASON JULY 1989, LATE SEASON NOVEMBER 1989

CHRONOLOGY OF NATIONAL AGRICULTURAL STATISTICS SERVICE

1839 Congress appropriates $1,000 to Patent Office for "collection of agricultural statistics and distribution of seeds."

1841 Using 1840 Agricultural Census as a benchmark, Patent Office issues first crop report. Annual releases continue until 1848.

1862 U.S. Department of Agriculture established.

1863 Division of Statistics formed in USDA as predecessor of today's NASS.

1866 Beginning of continuous series of reports on major crops, livestock, and agricultural prices.

1882 Part-time statisticians appointed to develop and maintain group of voluntary crop reporters and provide current information on agriculture.

1892 Now 15,000 farm-reporters provide data for monthly surveys, and 125,000 furnish survey data for annual estimates.

1903 In addition to crop reporters, 61,000 ginners, 24,000 millers and elevator operators, and 22,000 agents of railroads and transportation companies report on agriculture.

1905 Agricultural Statistics Board, a group of highly qualified agricultural statisticians from Washington D.C. and field offices, established to review information and set national and state estimates.

1908 Monthly reports begin on prices farmers receive for their products.

1909 Congress specifies which crops will be covered in crop report, stipulates issuance times, and requires Secretary of Agriculture to sign report. Statisticians, staff, and other workers prohibited by law from making premature disclosure of crop estimates, issuing false reports, or speculating on commodity market.

1917 Wisconsin signs first formal agreement establishing cooperative Federal-State crop-estimating program. (Agreements in effect with 48 States by 1967.)

1919 South Carolina statistician does first fieldwork on objective measurements of crop acreages (now a significant element in NASS crop estimating).

1925 First 5-year census of agriculture taken; previously taken every 10 years.

1928 Objective measurements for forecasting yield start with cotton; corn and wheat later, but are discontinued at the start of World War II.

1943 Quarterly estimates of grain stocks off farms in mills and elevators begin.

1945 Forerunner of today's enumerative surveys launched with interviews of 20,000 farmers in 158 counties and 42 states concerning farm labor.

1954 June enumerative survey of crop acreages opens on research basis in 10 States, 100 counties, and 703 segments.

1956 First comprehensive farm production expenditures survey conducted.

1962 Objective yield surveys for wheat become operational, providing the ASB with additional indications of yield per acre.

1962 NASS begins use of computers. Data Processing Branch created.

1966 Continuous crop and livestock estimating program enters second century.

1974 NASS participates with NASA and NOAA in the Large Area Crop Inventory Experiment, a major inter-departmental effort to demonstrate the potential of satellite data and weather data for use in worldwide crop production estimation and forecasting for wheat.

1978 AgRISTARS, under the leadership of NASS developed as an interagency research program to evaluate the potential of aerospace remote sensing data in meeting USDA information needs.

1979 List frame, a standardized method for building and maintaining a list of names for sampling, becomes operational.

1982 NASS estimating program modified because of budget constraints. Available resources redirected toward maintaining timely and available data series judged to be the most important in monitoring changes in the agricultural sector.

1983 NASS developed its second comprehensive, long-range plan for improved statistical standards, integrated survey programs, and data management systems.

1986 USDA changes the name of Statistical Reporting Service to National Agricultural Statistics Service to more accurately reflect the purpose of the agency and its broad agricultural focus.

198. "FACT FINDING FOR AGRICULTURE - 125 YEARS OF SERVICE". NASS celebrates 125 years as the leader in providing crop and livestock statistics.

National Agricultural Statistics Service Order Form

Periodicals

NOTE: Single copies of periodicals issued since January 1989 available for $5.50, while supplies last.

	1 Year	2 Years	3 Years
Field Crop Series			
Crop Production (monthly plus annual *Summary* plus copies of *Prospective Plantings* and *Winter Wheat and Rye Seedings*)	____ $27	____ $53	____ $78
Crop Progress (weekly, April through November)	____ $25	____ $49	____ $72
Peanut Stocks and Processing (monthly)	____ $14	____ $27	____ $39
Grain Stocks (quarterly)	____ $11	____ $21	____ $30
Potato Stocks (6 issues plus 1 issue of *Potatoes*)	____ $14	____ $27	____ $39
Rice Stocks (quarterly)	____ $11	____ $21	____ $30
Hop Stocks (March & September)	____ $8	____ $15	____ $21
Fruit and Vegetable Series			
Celery (monthly)	____ $12	____ $23	____ $33
Noncitrus Fruits and Nuts (midyear and annual *Summary*)	____ $12	____ $23	____ $33
Vegetables (monthly plus annual *Summary*)	____ $17	____ $33	____ $48
Livestock Series			
Cattle (2 issues plus monthly issues of *Cattle on Feed*)	____ $20	____ $39	____ $57
Hogs and Pigs (quarterly)	____ $11	____ $21	____ $30
Livestock Slaughter (monthly plus annual *Summary*)	____ $24	____ $47	____ $69
Poultry Series			
Egg Products (monthly)	____ $15	____ $29	____ $42
Eggs, Chickens and Turkeys (monthly, plus copies of *Hatchery Production* annual, *Layers and Egg Production* annual, *Poultry Production and Value*, and *Turkeys*)	____ $24	____ $47	____ $69
Turkey Hatchery (monthly)	____ $14	____ $27	____ $39
Poultry Slaughter (monthly)	____ $14	____ $27	____ $39
Dairy Series			
Dairy Products (monthly plus annual *Summary*)	____ $20	____ $39	____ $57
Milk Production (monthly plus copy of *Milk Production, Disposition, and Income*)	____ $16	____ $31	____ $45
Other Series			
Agricultural Prices (monthly)	____ $24	____ $47	____ $69
Farm Production Expenditures (June & July)	____ $12	____ $23	____ $33
Farm Labor (quarterly)	____ $11	____ $21	____ $30
Catfish (monthly plus copies of *Catfish Production* in February & July)	____ $15	____ $29	____ $42
Cold Storage (monthly plus annual *Summary*)	____ $17	____ $33	____ $48
Sugar Market Statistics (quarterly)	____ $11	____ $21	____ $30

Order form continued on next page.

National Agricultural Statistics Service Order Form

Monographs

NOTE: Pay one time and receive these annual publications automatically for the next 3 years.

	Issue month	1 Year	2 Years	3 Years
Fruit and Vegetable Series				
Cherry Production	June	___ $4.00	___ $7.50	___ $10.50
Citrus Fruits	September	___ $4.00	___ $7.50	___ $10.50
Cranberries	August	___ $4.00	___ $7.50	___ $10.50
Filbert Production	August	___ $4.00	___ $7.50	___ $10.50
Livestock Series				
Meat Animals: Production, Disposition, & Income	April	___ $4.00	___ $7.50	___ $10.50
Sheep & Goats	February	___ $4.00	___ $7.50	___ $10.50
Wool & Mohair	March	___ $4.00	___ $7.50	___ $10.50
Prices and Expenditures Series				
Agricultural Prices Summary	June	___ $8.00	___ $15.50	___ $22.50
Crop Values	January	___ $5.00	___ $9.50	___ $13.50
Prices Received, Minnesota-Wisconsin Manufacturing Grade Milk	June	___ $4.00	___ $7.50	___ $10.50
Other Reports				
Mink	July	___ $4.00	___ $7.50	___ $10.50
Mushrooms	August	___ $4.00	___ $7.50	___ $10.50
Floriculture Crops	April	___ $6.50	___ $12.50	___ $18.00
Honey	February	___ $4.00	___ $7.50	___ $10.50
Capacity of Refrigerated Warehouses	February—even-numbered years	___ $4.00	___ $7.50	___ $10.50
Trout Production	September	___ $4.00	___ $7.50	___ $10.50

For *fastest* service, call toll free, 1-800-999-6779 (8:30-5:00 E.T.)

- Use purchase orders, checks drawn on U.S. banks, cashier's check, or international money orders.
- ***Make payable to ERS-NASS.***
- Add 25 percent extra for shipments to foreign addresses (including Canada).
- Sorry, no refunds.

Mail to: ERS-NASS
P.O. Box 1608
Rockville, MD 20850

Name _____

Organization _____

Address _____

City, State, Zip _____

Daytime phone _____

☐ Bill me. Enclosed is $_____. ☐ MasterCard ☐ VISA Total charges $_____.

Credit card number: ☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐ Expiration date: Month/Year ☐☐

☐ Check here for a free subscription to *Reports*, a quarterly catalog describing the latest in NASS and ERS releases. It's designed to keep you up-to-date in all areas related to food, the farm, the rural economy, foreign trade, and the environment.

Please complete both pages of this order form.

North Dakota
Agricultural
Statistics
Service
P.O. Box 3166, Fargo, ND 58108
Telephone: (701).239-5308

U.S. Department of Agriculture
National Agricultural
Statistics Service

Cooperating with

North Dakota State University
Agricultural Experiment Station
and Extension Service

NORTH DAKOTA
FARM REPORTER and CROP-WEATHER
Order Form
(Federally Funded Reports)

TO ORDER: Indicate the number of reports you need and send your check to the address below. Reports are free to News Media and to Farmers and Agri-Businesses who provide basic data on which reports are based.

V	TITLE	FEE	DESCRIPTION	MAIL TO:
____	(920) N.D. FARM REPORTER (18-20 per Year)	$10.00	This is the major publication providing basic up-to-date State and National estimates. We recommend this one to keep you current.	Agricultural Statistics Board Publications Room 5829 South Building U.S. Department of Agriculture Washington, D.C. 20250 Make checks payable to U.S.D.A.-N.A.S.S. Please do not send cash. Enclosed is $_____ Check:__
____	(921) CROP-WEATHER SUMMARY (32-36 per Year)	$12.00	This report provides weather information, crop conditions and monitors crop progress through the growing season. Released weekly from mid-April to mid-October and monthly for the remainder of the year.	

SUBSCRIBER CLASSIFICATION

Please Indicate: _____ 961 N.D. Farm Operator _____ 962 Landlord _____ 963 Agribusiness

_____ 964 Education _____ 965 Other - Specify

YOUR ADDRESS

Company or
Personal Name

Additional Address/
Attention Line

Street Address

City State Zip Code

(Or Country)

ND38-SFH1589

PLEASE PRINT OR TYPE

North Dakota
Agricultural
Statistics
Service
P.O. Box 3166, Fargo, ND 58108
Telephone: (701) 239-5308

U.S. Department of Agriculture
National Agricultural
Statistics Service

Cooperating with

North Dakota State University
Agricultural Experiment Station
and Extension Service

NORTH DAKOTA
AGRICULTURAL STATISTICS BULLETIN

Order Form

TO ORDER: Indicate the quantity of each bulletin you need and send your check to the address shown below. Also, please check one of the subscriber classifications.

YEAR	FEE	QUANTITY	DESCRIPTION	MAIL TO:
1989.....	$6.00		A comprehensive book of crop, livestock and price statistics for North Dakota, including county estimates for livestock and major crops.	N.D. Ag Statistics Service P.O. Box 3166 Fargo, ND 58108-3166 Make checks payable to: EXTENSION COMMUNICATION Please do not send cash. Enclosed is $_____ Check.
1988.....	$6.00			
1987.....	$5.00			
Other _____ (Year)	Variable			

SUBSCRIBER CLASSIFICATION

Please Indicate: _____ 961 N.D. Farm Operator _____ 962 Landlord _____ 963 Agribusiness

_____ 964 Education _____ 965 Other - Specify

YOUR ADDRESS

Company or
Personal Name _____

Additional Address/
Attention Line _____

Street Address _____

City _____ State _____ Zip Code _____

(Or Country) _____

ND38-SFH2589

PLEASE PRINT OR TYPE

WHERE TO FIND HISTORIC COUNTY ESTIMATES

The reference table below shows where to find historic estimates. County estimates for most major crops were begun in 1919 and for livestock in 1925 although there are exceptions to both as indicated in the table. Separate estimates of the production of corn for grain were begun in 1957. Estimates of commercial grain storage capacity were not made in 1959, nor in 1961-64 and were discontinued after 1986.

Estimates for all livestock are on a January 1 inventory number basis until 1968 for hogs and 1970 for chickens when the reference date was changed to December 1.

PUBLICATION REFERENCE

Item	Agricultural Statistics										
	No. 5	No. 33	No. 36	No. 43	No. 46	No. 49	No. 54	No. 55	No. 56	No. 57	No. 58
Cost	FREE	FREE	FREE	FREE	FREE	FREE	$5.00	$5.00	$5.00	$6.00	$6.00
Wheat, All	*1919-54	1955-70		1971-75		1976-79	1980-84	1984	1985	1986	1987-88
Winter 1/		1964-70		1971-75		1976-79	1980-84	1984	1985	1986	1987-88
Durum	*1929-54	1955-70		1971-75		1976-79	1980-84	1984	1985	1986	1987-88
Other Spring	*1929-54	1955-70		1971-75		1976-79	1980-84	1984	1985	1986	1987-88
Oats	1919-54		1955-70	1971-75		1976-79	1980-84	1984	1985	1986	1987-88
Barley	1919-54		1955-70	1971-75		1976-79	1980-84	1984	1985	1986	1987-88
Rye	1919-54		1955-70	1971-75		1976-79	1980-84	1984	1985	1986	1987-88
Flaxseed	*1919-54				1955-75	1976-79	1980-84	1984	1985	1986	1987-88
	No. 9										
Corn	1919-54		1955-69	1970-75		1976-79	1980-84	1984	1985	1986	1987-88
Soybeans 2/					1954-75	1976-79	1980-84	1984	1985	1986	1987-88
Potatoes 5/	1919-54				1955-75	1976-79	1980-84	1984	1985-86		1987-88
Sugarbeets					1958-75	1976-79	1980-84	1984	1985	1986	1987-88
Sunflower					1969-75	1976-79	1980-84	1984	1985	1986	1987-88
Dry Edible Beans						1977-79	1980-84	1984	1985	1986	1987-88
Dry Field Peas 3/					1959-69						
Hay, By Kind	1919-54				1955-75	1976-78	1979-84	1984	1985-86		1987-88
Summer Fallow					1949-75	1976-79	1980-84	1985			1986-88
Grain Storage (Commercial)					1958-75	1976-79	1980-85	1986			

LIVESTOCK INVENTORY	No. 7	No. 17	No. 30	No. 43				
Cattle, All	1925-60	1961-66	1967-71	1972-76	1977-79	1980-84	1985-86	1987-89
Milk Cows	1925-60	1961-66	1967-71	1972-76	1977-79	1980-84	1985-86	1987-89
Hogs, All	1925-60	1961-66	1967-70	1972-75	1976-78	1979-83	1984-87	1988-89
Sheep, All	1925-40			1971-76	1977-79	1980-84	1985-86	1987-89
Stock Sheep 4/	1941-60	1961-66	1967-71	1972-75				
Chickens, All 5/	1951-60	1961-66	1967-70	1971-73				
Horses, All	1925-49	- - - - - - County Estimates Discontinued after 1949 - - - - - -						

HISTORIC PERSPECTIVES	Unnumbered	No. 14	No. 24	No. 39
Crop Weather		1950-65	1965-76	1976-85
Price Trends	1910-57	1958-70		1960-86

*Wheat Statistics for 1919-54 are in No. 3 and Flaxseed for 1919-54 are in No. 2. 1/ Included in Other Spring Wheat prior to 1964. 2/ State estimates 1924-53 in No. 3. 3/ State estimates discontinued after 1972, County Estimates discontinued after 1969. 4/ County estimates discontinued after 1975. 5/ County estimates discontinued after 1973.

NORTH DAKOTA
CENTENNIAL